ISSN 0168-583X

Nuclear Instruments & Methods in Physics Research, Section B

BEAM INTERACTIONS WITH MATERIALS AND ATOMS

Editors: H.H. Andersen and L.E. Rehn

Master Index
Volumes 201–210
December 2003

Also available on
SCIENCE DIRECT®
www.sciencedirect.com

North-Holland
http://www.elsevier.com/locate/nimb

Scope of NIM-B

Beam Interactions with Materials and Atoms, Section B of Nuclear Instruments and Methods in Physics Research, accepts experimental and theoretical papers of original research covering all aspects of the interaction of energetic beams with atoms, molecules and aggregate forms of matter. This includes ion beam analysis and ion beam modification of materials as well as basic data of importance for these studies.

Topics of general interest include atomic collisions in solids, particle channeling, all aspects of collision cascades, the modification of materials by energetic beams, ion implantation, irradiation-induced changes in materials, the physics and chemistry of ion interactions and the analysis of materials by all forms of energetic radiation. Modification by ion, laser and electron beams for the study of electronic materials, metals, ceramics, insulators, polymers and other important and new material systems are included. Related studies, such as the application of ion beam analysis to biological, archaeological and geological samples, as well as applications to solve problems in planetary science, are also welcome. Energetic beams of interest include atomic and molecular ions, neutrons, positrons and muons, plasmas directed at surfaces, electron and photon beams, including laser treated surfaces and studies of solids by photon radiation from rotating anodes, synchrotrons, etc. In addition, the interaction between various forms of radiation and radiation-induced deposition processes are relevant.

Below are listed keywords to the specialized fields within the scope of the journal.

Basic Data for Materials Modification and Analysis

Range distributions
Stopping powers in gases and solids
X-ray cross sections
Fluorescence yields
Nuclear reaction cross sections
Scattering cross sections

Atomic Collisions in Solids

Atomic and molecular collisions
Collision cascades
Surface interactions
Beam-induced desorption
Beam – foil spectroscopy
Secondary particle emission, sputtering
Channeling
Multiple scattering

Ion and Laser Beam Modification of Materials

Ion implantation
Ion beam mixing
Beam-enhanced deposition
Electrical properties of semiconductors
New-phase formation
Optical properties
Defect properties
Friction, wear, erosion
Interfaces, adhesion
Oxidation and corrosion
Superconductivity
Magnetic properties
Other property changes

Effects of Radiation

Radiation damage
Particle tracks
Cluster beams
Interaction of plasmas
Laser ablation
Laser and electron-beam induced modification
Energy and radiation transport in matter
High-intensity beams
Other directed energy processes

Analysis of Materials

Ion beam analysis
Ion channeling
Ion backscattering
Elastic recoil detection
Ion-induced X-rays
Ion-induced nuclear reactions
Low energy ion beam analysis
Secondary ion mass spectroscopy
Secondary electron spectroscopy
Neutron scattering
Slow positron beams
Subatomic particle analyses
Mössbauer spectroscopy
Photon beams
X-ray techniques
Accelerator mass spectroscopy
Nuclear dating techniques

Ion Sources, Beam Optics and Accelerator Systems

Sputter sources
ECR sources
Microbeam sources
Other ion sources
Beam optics for analysis and collision studies
Microprobes

Experimental Methods and Equipment

Dosimetry
Target-temperature regulation systems
High-intensity beams
Beam scanning systems
Fitting and interpretation of energy spectra
New experimental methods
New instrumentation concepts

Beam Interactions with Materials and Atoms

Section B of:

Nuclear Instruments & Methods in Physics Research

MASTER INDEX
Volumes 201–210

Editors: H.H. Andersen & L.E. Rehn

ELSEVIER

Amsterdam – London – New York – Oxford – Paris – Shannon – Tokyo

© 2003 Elsevier B.V. All rights reserved.

This journal and the individual contributions contained in it are protected under copyright by Elsevier B.V., and the following terms and conditions apply to their use:

Photocopying. Single photocopies of single articles may be made for personal use as allowed by national copyright laws. Permission of the Publisher and payment of a fee is required for all other photocopying, including multiple or systematic copying, copying for advertising or promotional purposes, resale, and all forms of document delivery. Special rates are available for educational institutions that wish to make photocopies for non-profit educational classroom use.
Permissions may be sought directly from Elsevier's Rights Department in Oxford, UK; phone: (+44) 1865 843830; fax: (+44) 1865 853333; e-mail: permissions@elsevier.com. Requests may also be completed on-line via the Elsevier homepage (http://www.elsevier.com/locate/permissions).
In the USA, users may clear permissions and make payment through the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, USA; phone: (+1) (978) 7508400; fax: (+1) (978) 7504744, and in the UK through the Copyright Licensing Agency Rapid Clearance Service (CLARCS), 90 Tottenham Court Road, London W1P 0LP, UK; phone: (+44) (20) 7631 5555; fax: (+44) (20) 7631 5500. Other countries may have a local reprographic rights agency for payments.

Derivative works. Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution.
Permission of the Publisher is required for all other derivative works, including compilations and translations.

Electronic storage or usage. Permission of the Publisher is required to store or use electronically any material contained in this journal, including any article or part of an article.
Except as outlined above, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the Publisher.
Address permissions requests to: Elsevier Rights Department, at the fax and e-mail addresses noted above.

Notice. No responsibility is assumed by the Publisher for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in the material herein. Because of rapid advances in the medical sciences, in particular, independent verification of diagnoses and drug dosages should be made.
Although all advertising material is expected to conform to ethical (medical) standards, inclusion in this publication does not constitute a guarantee or endorsement of the quality or value of such product or of the claims made of it by its manufacturer.

⊖ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).

Printed in The Netherlands

Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research B 210I (2003) 1–118
NIM B
Beam Interactions with Materials & Atoms
www.elsevier.com/locate/nimb

Author index of volumes 201–210

Ababiy, V., see Okuno, H. 201 (2003) 259
Ababiy, V., see Kolchuzhkin, A. 201 (2003) 307
Abbey, A.F., see Ambrosi, R.M. 207 (2003) 175
Abdalla, M., see Marchal, J. 206 (2003) 462
Abd El-Hameed, A.M., I.M. Azzouz, G.H. Abou-Koura and Y.E.E.-D. Gamal, Study of recombination processes during the expansion phase of titanium-plasma produced by picosecond Nd:glass laser radiation 205 (2003) 271
Abe, H., H. Uchida, Y. Azuma, A. Uedono, Z.Q. Chen and H. Itoh, Improvement of hydrogen absorption rate of Pd by ion irradiation 206 (2003) 224
Abe, H., see Kasukabe, Y. 206 (2003) 390
Abe, H., see Vacik, J. 206 (2003) 395
Abe, H., see Hirao, T. 206 (2003) 457
Abe, H., see Hirao, T. 210 (2003) 227
Abe, K., O. Eryu, O. Kogi and K. Nakashima, Electrical properties of high-dose nitrogen-implanted and rapid thermal annealed 6H–SiC 206 (2003) 960
Abe, K., see Eryu, O. 206 (2003) 969
Abe, S., see Miyatake, H. 204 (2003) 746
Abe, T., see Morishita, T. 206 (2003) 565
Abedinzadeh, Z., see Baldacchino, G. 209 (2003) 219
Abellon, R.D., see Frahn, M.S. 208 (2003) 405
Abo, S., M. Mizutani, K. Ikeda, A. Kinomura, T. Iwamatsu, S. Maegawa and M. Takai, Investigation of floating body effects in PD-SOI-MOSFET using proton microprobe 210 (2003) 216
Abou-Koura, G.H., see Abd El-Hameed, A.M. 205 (2003) 271
Abraham, M.H., see Rajta, I. 210 (2003) 260
Abramof, E., see Ueda, M. 206 (2003) 749
Abu-Haija, O., E.Y. Kamber and S.M. Ferguson, Single-electron capture by He^{2+} ions from triatomic molecules 205 (2003) 634
Abu Saleh, S. and Y. Eyal, Observation of heavy-ion tracks in polyimide by means of high-resolution scanning electron microscopy 208 (2003) 137
Abu Saleh, S. and Y. Eyal, Cores and halos of uranium-ion tracks in LiF 209 (2003) 113
Ackermann, D., see Sikler, G. 204 (2003) 482
Acosta, E., see Sempau, J. 207 (2003) 107
Adachi, K., see Tsuji, H. 206 (2003) 615
Adachi, K., see Arai, N. 206 (2003) 629
Adams, F., see Belykh, S.F. 203 (2003) 164
Adams, F., see Belykh, S.F. 203 (2003) 172
Adischev, Y.N., S.N. Arishev, A.V. Vnukov, A.V. Vukolov, A.P. Potylitsyn, S.I. Kuznetsov, V.N. Zabaev, B.N. Kalinin, V.V. Kaplin, S.R. Uglov, A.S. Kubankin and N. Nasonov, Angular distribution of X-ray radiation by 500 MeV electrons in a tungsten crystal 201 (2003) 114
Adischev, Y.N., V.N. Zabaev, A.P. Potylitsyn, U.S. Salikhbaev, A.N. Safarov, B.A. Skripnik, Y.Y. Stepnov and I. Khakberdiev, The quasimonochromatic X-ray radiation source on the basis of the electron beam of the microtron 201 (2003) 300
Adnot, A., see Massey, S. 208 (2003) 236
Adoui, L., O. Gobert, P. Indelicato, E. Lamour, P. Meynadier, D. Normand, M. Perdrix, C. Prigent, J.-P. Rozet and D. Vernhet, Xe(L) X-ray emission from laser–cluster interaction 205 (2003) 341

doi:10.1016/S0168-583X(03)02023-8

Adoui, L., see Laurent, G. 205 (2003) 546
Adriaens, A., see Belykh, S.F. 203 (2003) 164
Adriaens, A., see Belykh, S.F. 203 (2003) 172
Afanasyev-Charkin, I.V. and M. Nastasi, Dependence of optical properties and hardness on carbon content in silicon carbonitride films deposited by plasma ion immersion processing technique 206 (2003) 736
Agematsu, T., see Fukuda, M. 210 (2003) 33
Ager, F.J., M.D. Ynsa, J.R. Domínguez-Solís, M.C. López-Martín, C. Gotor and L.C. Romero, Nuclear microprobe analysis of *Arabidopsis thaliana* leaves 210 (2003) 401
Aguilar, A., see Schippers, S. 205 (2003) 297
Aguilar, A., see Müller, A. 205 (2003) 301
Aharonian, F.A., V.V. Bugayov, J. Kettler, A.V. Plyasheshnikov and H.J. Völk, On the potential of the imaging atmospheric Cherenkov technique for study of the mass composition of primary cosmic radiation in the energy region above 30 TeV 201 (2003) 217
Ahmad, B., see Akhtar, M.N. 207 (2003) 333
Ahmad, S., see Akhtar, M.N. 207 (2003) 333
Ahmed, M., M.A. Garwan, M.A. Al-Ohali, Z. Hamouz, K. Soufi, R. Minqin, I. Rajta and F. Watt, Proton microprobe analysis of water trees in underground high voltage cables 210 (2003) 548
Ahmed, S., B.J. Sealy and R. Gwilliam, Effect of proton implantation at variable temperatures and doses on the semi-insulating GaAs 206 (2003) 1003
Ahmed, S., B.J. Sealy and R. Gwilliam, Annealing characteristics of the implant-isolated n-type GaAs layers: Effects of ion species and implant temperature 206 (2003) 1008
Ahu Akin, F., see Hanley, L. 203 (2003) 116
Aichele, K., W. Arnold, H. Bräuning, D. Hathiramani, F. Scheuermann, R. Trassl and E. Salzborn, Electron-impact single and multiple ionization of praseodymium ions 205 (2003) 437
Aiken, J., see Currell, F.J. 205 (2003) 230
Aiken, J., see Watanabe, H. 205 (2003) 239
Aitchison, J.S., see García-Blanco, S. 206 (2003) 440
Aizawa, T., see Mitsuo, A. 206 (2003) 366
Aizawa, T., see Akhajdenung, T. 207 (2003) 45
Akamatsu, H., see Nishimura, Y. 206 (2003) 696
Akapiev, G.N., S.N. Dmitriev, B. Erler, V.V. Shirkova, A. Schulz and H. Pietsch, Ion track membranes providing heat pipe surfaces with capillary structures 208 (2003) 133
Akedo, J., see Wang, Q. 206 (2003) 118
Akedo, J., see Ogiso, H. 206 (2003) 157
Akhajdenung, T., T. Aizawa, M. Yoshitake and A. Mitsuo, Feasibility study of self-lubrication by chlorine implantation 207 (2003) 45
Akhtar, M.N., B. Ahmad and S. Ahmad, Low energy heavy ion detection with the plastic scintillator NE102E 207 (2003) 333
Akhunov, Sh., S.N. Morozov and U.Kh. Rasulev, Features of polyatomic ion emission under sputtering of a silicon single crystal by Au_m^- cluster ions 203 (2003) 146
Aksela, H., see Fritzsche, S. 205 (2003) 93
Aksenov, V.P., see Bayazitov, R.M. 206 (2003) 984
Aktas, B., see Khaibullin, R.I. 206 (2003) 277
Aktas, B., see Khaibullin, R.I. 206 (2003) 1115
Al-Ajili, A., see Marchal, J. 206 (2003) 462
Alam, E.A., see El-Naggar, A.M. 201 (2003) 595
Albano, C., J. Reyes, M.N. Ichazo, J. González and M. Rodríguez, Effects of the high doses of irradiation on the mechanical properties of PS/PP blends 208 (2003) 485
Albe, K., see Nord, J. 202 (2003) 93
Albe, K., see Voegeli, W. 202 (2003) 230
Alducin, M., R. Díez Muiño and J.I. Juaristi, Ion induced electronic excitations in a spin-polarized electron gas 203 (2003) 83
Aleinik, A.N., O.V. Chefonov, B.N. Kalinin, G.A. Naumenko, A.P. Potylitsyn, G.A. Saruev, A.F. Sharafutdinov and W. Wagner, Low-energy electron-beam diagnostics based on the optical transition radiation 201 (2003) 34
Aleinik, A.N., O.V. Chefonov, B.N. Kalinin, G.A. Naumenko, A.P. Potylitsyn, G.A. Saruev and A.F. Sharafutdinov, Investigation of resonant polarization radiation of relativistic electrons in gratings at small angles 201 (2003) 191
Alexandrov, V., see Shirkov, G. 205 (2003) 215

Alexandrov, V., N. Kazarinov, V. Shevtsov and G. Shirkov, Simulation and optimization of ion beam lines from ion sources 205 (2003) 220
Alfaro, R., see Menchaca-Rocha, A. 201 (2003) 426
Alfaro, R., see Menchaca-Rocha, A. 207 (2003) 356
Ali, R., see Kamber, E.Y. 205 (2003) 577
Allard, L.F., see Alves, E. 207 (2003) 55
Allen, C.W., see Mitsuishi, K. 206 (2003) 109
Allen, L.P., see Insepov, Z. 202 (2003) 261
Allen, L.P., see Insepov, Z. 206 (2003) 846
Almeida, S.M., M.A. Reis, M.C. Freitas and C.A. Pio, Quality assurance in elemental analysis of airborne particles 207 (2003) 434
Alnaser, A.S., see Hossain, S. 205 (2003) 484
Al-Ohali, M.A., see Ahmed, M. 210 (2003) 548
Alonso, U., T. Missana, A. Patelli, J. Ravagnan and V. Rigato, RBS and μPIXE analysis of uranium diffusion from bentonite to the rock matrix in a deep geological waste repository 207 (2003) 195
Álvarez, I., see Müller, A. 205 (2003) 301
Alves, E., R.C. da Silva, J.V. Pinto, T. Monteiro, B. Savoini, D. Cáceres, R. González and Y. Chen, Radiation-damage recovery in undoped and oxidized Li doped MgO crystals implanted with lithium ions 206 (2003) 148
Alves, E., see Wendler, E. 206 (2003) 1028
Alves, E., U. Wahl, M.R. Correia, S. Pereira, B. De Vries and A. Vantomme, Annealing behavior and lattice site location of Er implanted InGaN 206 (2003) 1042
Alves, E., E. Rita, U. Wahl, J.G. Correia, T. Monteiro, J. Soares and C. Boemare, Lattice site location and optical activity of Er implanted ZnO 206 (2003) 1047
Alves, E., C. Marques, R.C. da Silva, T. Monteiro, J. Soares, C. McHargue, L.C. Ononye and L.F. Allard, Structural and optical studies of Co and Ti implanted sapphire 207 (2003) 55
Alves, E., see Alves, L.C. 210 (2003) 495
Alves, L.C., see Pinheiro, T. 210 (2003) 373
Alves, L.C., A. Paúl, M.R. da Silva, E. Alves, B. Riccardi and J.C. Soares, High temperature chemical compatibility between SiC composites and Be pebbles 210 (2003) 495
Al-Zier, A., see Janik, I. 208 (2003) 374
Amaral, L., see Kling, A. 206 (2003) 653
Amartaivan, Ts., see Matsuyama, S. 210 (2003) 59
Amartivan, Ts., see Oishi, Y. 210 (2003) 117
Amaudruz, P., see Kiefl, R.F. 204 (2003) 682
Ambrosi, R.M., D.R. Smith, A.F. Abbey, I.B. Hutchinson, E. Kendziorra, A. Short, A. Holland, M.J.L. Turner and A. Wells, The impact of low energy proton damage on the operational characteristics of EPIC-MOS CCDs 207 (2003) 175
Amédée, J., see Yang, Y. 207 (2003) 165
Amekura, H., N. Umeda, N. Okubo and N. Kishimoto, Ion-induced frequency shift of ~1100 cm^{-1} IR vibration in implanted SiO_2: Compaction versus bond-breaking 206 (2003) 1101
Ames, F., see Kester, O. 204 (2003) 20
Ames, F., see Wolf, B.H. 204 (2003) 428
Ames, F., see Beck, M. 204 (2003) 521
Ames, F., see Habs, D. 204 (2003) 739
Amro, H., see Ressler, J.J. 204 (2003) 141
Amsel, G., G. Battistig and A. L'Hoir, Small angle multiple scattering of fast ions, physics, stochastic theory and numerical calculations 201 (2003) 325
An, Z., M.T. Liu, Y.C. Fu, Z.M. Luo, C.H. Tang, C.M. Li, B.H. Zhang and Y.J. Tang, Some recent progress on the measurement of K-shell ionization cross-sections of atoms by electron impact: Application to Ti and Cr elements 207 (2003) 268
Anagnostopoulos, D.F., S. Biri, V. Boisbourdain, M. Demeter, G. Borchert, J.P. Egger, H. Fuhrmann, D. Gotta, A. Gruber, M. Hennebach, P. Indelicato, Y.W. Liu, B. Manil, V.E. Markushin, H. Marton, N. Nelms, A.J. Rusi El Hassani, L.M. Simons, L. Stingelin, A. Wasser, A. Wells and J. Zmeskal, Highly charged ions in exotic atoms research at PSI 205 (2003) 9
Anami, S., see Okuno, H. 201 (2003) 259
Andò, L., see Ciavola, G. 204 (2003) 410
Andò, L., see Gammino, S. 205 (2003) 162

Andò, L., see Gammino, S. . . . 209 (2003) 345
Andersen, H.H. and Yu.L. Pivovarov, Editorial – Radiation from relativistic electrons in periodic structures . . . 201 (2003) 1
Andersen, H.H. and L.E. Rehn, Editorial . . . 201 (2003) 315
Anderson, R.A., see Kiefer, R.L. . . . 208 (2003) 300
Ando, K., see Huang, M. . . . 205 (2003) 119
Ando, K., see Morishita, Y. . . . 205 (2003) 758
Ando, K., see Iwai, Y. . . . 205 (2003) 762
Ando, M., see Nakamura, K. . . . 206 (2003) 798
Andreev, O.Yu., L.N. Labzowsky, G. Plunien and G. Soff, Evaluation of the low-lying energy levels of two- and three-electron configurations for highly charged ions . . . 205 (2003) 25
Andreyev, A.N., see Köster, U. . . . 204 (2003) 347
Andreyev, A.N., see Page, R.D. . . . 204 (2003) 634
Andreyev, A.N., see Uusitalo, J. . . . 204 (2003) 638
Andrighetto, A., J. Li, C. Petrovich and Q. You, Study of isotopes production for the SPES project . . . 204 (2003) 205
Andrighetto, A., A.E. Barzakh, D.V. Fedorov, V.S. Ivanov, F.V. Moroz, S.Yu. Orlov, V.N. Panteleev, M.D. Seliverstov, I.M. Strachnov, L. Stroe, L. Tecchio and Yu.M. Volkov, Production of neutron rich nuclides from uranium carbide targets of different density . . . 204 (2003) 267
Andrighetto, A., see Panteleev, V.N. . . . 204 (2003) 382
Andrukhovich, S.K., A.V. Berestov, N. Antovich, P. Vukotich, A.A. Gurinovich, A.A. Khrutchinsky and O.N. Metelitsa, Investigation of orthopositronium 3γ-decay using a multidetector spectrometer . . . 207 (2003) 219
Angelique, J.C., see Gibouin, S. . . . 204 (2003) 240
Angelone, M., see Fattibene, P. . . . 201 (2003) 480
Angelov, Ch., M. Takai, A. Kinomura, Y. Horino, A. Peeva and W. Skorupa, Ion beam induced epitaxial crystallization of silicon implanted with heavy ions . . . 206 (2003) 907
Angelov, Ch., see Kaschieva, S. . . . 206 (2003) 452
Angelov, V., see Rusanov, V. . . . 207 (2003) 205
Anisimov, A., see Shirkov, G. . . . 205 (2003) 215
Anneaux, B.L., see Shalaby, S.W. . . . 208 (2003) 110
Anpo, M., see Yamashita, H. . . . 206 (2003) 889
Anpo, M., see Yamashita, H. . . . 206 (2003) 898
Anton, J., see Pešić, Z.D. . . . 203 (2003) 96
Antonova, L.Kh., see Bayazitov, R.M. . . . 206 (2003) 984
Antovich, N., see Andrukhovich, S.K. . . . 207 (2003) 219
Anuntalabhochai, S., see Yu, L.D. . . . 206 (2003) 586
Anzalone, A., see Lanzanò, G. . . . 205 (2003) 841
Anzalone, A., see Lanzanò, G. . . . 209 (2003) 212
Aoki, M., see Wang, A. . . . 206 (2003) 219
Aoki, T., J. Matsuo and G. Takaoka, Molecular dynamics study of damage formation characteristics by large cluster ion impacts . . . 202 (2003) 278
Aoki, T., J. Matsuo, G. Takaoka, N. Toyoda and I. Yamada, Defect characteristics by boron cluster ion implantation . . . 206 (2003) 855
Aoki, T., J. Matsuo, G. Takaoka and I. Yamada, Cluster species and cluster size dependence of damage formation by cluster ion impact . . . 206 (2003) 861
Aoki, T., see Matsuo, J. . . . 206 (2003) 838
Aoki, T., see Nakai, A. . . . 206 (2003) 842
Aoki, Y., see Sato, Y. . . . 208 (2003) 231
Aoyagi, Y., see Hida, A. . . . 205 (2003) 736
Aoyagi, Y., see Koguchi, Y. . . . 206 (2003) 202
Aoyagi, Y., see Meguro, T. . . . 209 (2003) 170
Apavatjrut, P., see Yu, L.D. . . . 206 (2003) 586
Apel, P., Swift ion effects in polymers: industrial applications . . . 208 (2003) 11
Apel, P., see Siwy, Z. . . . 208 (2003) 143
Apel, P.Yu., I.V. Blonskaya, O.L. Orelovitch, D. Root, V. Vutsadakis and S.N. Dmitriev, Effect of nanosized surfactant molecules on the etching of ion tracks: New degrees of freedom in design of pore shape . . . 209 (2003) 329
Appelbe, D.E., see Page, R.D. . . . 204 (2003) 634
Arai, N., see Tsuji, H. . . . 206 (2003) 615

Arai, N., H. Tsuji, M. Motono, Y. Gotoh, K. Adachi, H. Kotaki and J. Ishikawa, Formation of silver nanoparticles in thin oxide layer on Si by negative-ion implantation 206 (2003) 629
Arai, S., see Miyatake, H. 204 (2003) 746
Arakaki, Y., see Miyatake, H. 204 (2003) 746
Arakawa, K., K. Saitoh, H. Mori and K. Ono, Comparison among the formation processes of extended defects in Si under irradiation with low-energy H^+, He^+ ions and high-energy electrons 206 (2003) 76
Arakawa, K., see Ono, K. 206 (2003) 114
Arakawa, K., see Fukuda, M. 210 (2003) 33
Arakawa, K., see Matsuyama, S. 210 (2003) 59
Arakawa, K., see Satoh, T. 210 (2003) 113
Arakawa, K., see Oishi, Y. 210 (2003) 117
Arakawa, K., see Hattori, M. 210 (2003) 272
Arakawa, K., see Souno, T. 210 (2003) 277
Arakawa, K., see Harada, S. 210 (2003) 383
Araki, S., see Karataev, P. 201 (2003) 140
Araki, S., see Karataev, P. 201 (2003) 201
Araki, T., see Ikehata, T. 206 (2003) 772
Arano, I., see Kudo, H. 207 (2003) 283
Arena, N., see Lanzanò, G. 205 (2003) 841
Arena, N., see Lanzanò, G. 209 (2003) 212
Arendt, T., see Reinert, T. 210 (2003) 395
Argentini, M., see Köster, U. 204 (2003) 343
Arianer, J., see Essabaa, S. 204 (2003) 780
Arishev, S.N., see Adischev, Y.N. 201 (2003) 114
Arista, N.R., Erratum to "Energy loss of ions in solids: Non-linear calculations for slow and swift ions" [Nucl. Instr. and Meth. B 195 (2002) 91–105] 207 (2003) 232
Arnau, A., see Sarasola, A. 203 (2003) 104
Arnau, G., see Lettry, J. 204 (2003) 251
Arndt, K.-F., see Schmidt, T. 208 (2003) 331
Arnold, W., see Aichele, K. 205 (2003) 437
Arnoldbik, W.M., N. Tomozeiu and F.H.P.M. Habraken, Electronic sputtering of thin SiO_2 films by MeV heavy ions 203 (2003) 151
Arora, S.K., see Kono, K. 206 (2003) 291
Arseneau, D., see Kiefl, R.F. 204 (2003) 682
Artemyev, A.N., see Yerokhin, V.A. 205 (2003) 47
Artru, X., see Potylitsina-Kube, N. 201 (2003) 172
Artru, X., V. Baier, K. Beloborodov, G. Bochek, A. Bogdanov, A. Bozhenok, A. Bukin, S. Burdin, R. Chehab, M. Chevallier, R. Cizeron, D. Dauvergne, T. Dimova, A. Drozdetsky, V. Druzhinin, M. Dubrovin, L. Gatignon, V. Golubev, A. Jejcic, P. Keppler, R. Kirsch, V. Kulibaba, Ph. Lautesse, J. Major, N. Maslov, J.-C. Poizat, A. Potylitsin, J. Remillieux, S. Serednyakov, V. Shary, V. Strakhovenko, C. Sylvia and I. Vnukov, Experiment with a crystal-assisted positron source using 6 and 10 GeV electrons 201 (2003) 243
Artukh, A.G., A.G. Semchenkov, V.A. Shchepunov, G.F. Gridnev, O.V. Semchenkova, Yu.M. Sereda, Yu.G. Teterev, A. Budzanowski, F. Koscielniak, J. Szmider, V.P. Kukhtin, E.V. Lamzin, Yu.P. Severgin and S.E. Sytchevsky, The FLNR JINR wide aperture separator COMBAS 204 (2003) 159
Aruga, T., see Nakazawa, T. 206 (2003) 166
Arutyunov, K., see Huang, W.X. 204 (2003) 592
Asai, K., see Koshimizu, M. 206 (2003) 57
Asai, K., see Umebayashi, T. 206 (2003) 264
Asai, M., see Ichikawa, S. 204 (2003) 372
Asanuma, T., see Matsutani, T. 206 (2003) 343
Asanuma, T., see Liu, C. 206 (2003) 348
Asghar, M., see Belgaid, M. 201 (2003) 545
Ashery, D., see Melconian, D. 204 (2003) 540
Ashok, S., see Rangan, S. 206 (2003) 417
Aslanoglou, X.A., see Kokkoris, M. 201 (2003) 623
Assmann, W., see Habs, D. 204 (2003) 739

Assmann, W., see Mändl, S. 206 (2003) 668
Assmann, W., see Hammerl, C. 206 (2003) 1072
Assmann, W., see Schubert, M. 209 (2003) 224
Atarashi, K., see Shimakura, N. 205 (2003) 596
Attallah, F., see Scheidenberger, C. 204 (2003) 119
Attallah, F., see Sikler, G. 204 (2003) 482
Atteberrry, C.L., see Baragiola, R.A. 209 (2003) 294
Aubert, P., see Jagielski, J. 206 (2003) 1097
Auböck, G., see Bergmann, U.C. 204 (2003) 220
Augustyniak, M., see Przybyłowicz, W.J. 210 (2003) 343
Aumann, T., see Geissel, H. 204 (2003) 71
Aumayr, F., see Cernusca, S. 203 (2003) 1
Aumayr, F., see Lederer, S. 203 (2003) 23
Aumayr, F., see Gebeshuber, I.C. 205 (2003) 751
Ausset, P., see Essabaa, S. 204 (2003) 780
Austin, R.A.E., see Svensson, C.E. 204 (2003) 660
Avalos, V., see Poirier, R. 206 (2003) 85
Avasthi, D.K., see Diwan, P.K. 201 (2003) 389
Avasthi, D.K., see Singh, N. 206 (2003) 1120
Averback, R.S., see Enrique, R.A. 202 (2003) 206
Avoscan, L., see Khodja, H. 210 (2003) 359
Äystö, J., see Kester, O. 204 (2003) 20
Äystö, J., see Bergmann, U.C. 204 (2003) 220
Äystö, J., see Kolhinen, V.S. 204 (2003) 502
Äystö, J., see Nieminen, A. 204 (2003) 563
Äystö, J., see Huang, W.X. 204 (2003) 592
Azuma, K., see Nishimura, Y. 206 (2003) 696
Azuma, K., see Oka, Y. 206 (2003) 700
Azuma, T., see Kaneyasu, T. 205 (2003) 624
Azuma, T., T. Muranaka, Y. Takabayashi, T. Ito, C. Kondo, K. Komaki, Y. Yamazaki, S. Datz, E. Takada and T. Murakami, Angular distribution of X-ray emission from resonant coherently excited highly-charged heavy ions 205 (2003) 779
Azuma, T., see Nakai, Y. 205 (2003) 784
Azuma, Y., see Abe, H. 206 (2003) 224
Azzouz, I.M., see Abd El-Hameed, A.M. 205 (2003) 271
Azzouz, I.M., Investigation of multiple ionization of Krypton induced by short laser pulses 205 (2003) 337

Baartman, R., Low energy beam transport design optimization for RIBs 204 (2003) 392
Baartman, R., see Kiefl, R.F. 204 (2003) 682
Baartman, R., see Levy, C.D.P. 204 (2003) 689
Baba, K. and R. Hatada, Deposition of diamond-like carbon films on inner wall of sub-millimeter diameter steel tube by plasma source ion implantation 206 (2003) 704
Baba, K. and R. Hatada, Deposition of diamond-like carbon films by plasma source ion implantation with superposed pulse 206 (2003) 708
Baba, S., see Shibata, T. 206 (2003) 139
Baba, S., see Motohashi, Y. 206 (2003) 144
Baba, T., see Mizusawa, K. 208 (2003) 106
Baccaro, S., see Wang, S. 201 (2003) 475
Baccaro, S., F. Cataldo, A. Cecilia, A. Cemmi, F. Padella and A. Santini, Interaction between reinforce carbon black and polymeric matrix for industrial applications 208 (2003) 191
Baccaro, S., V. Brunella, A. Cecilia and L. Costa, γ irradiation of poly(vinyl chloride) for medical applications 208 (2003) 195
Bachmann, P., see Radtke, R. 205 (2003) 250
Backe, H., see Stöhlker, Th. 205 (2003) 156
Bacon, D.J., see Osetsky, Yu.N. 202 (2003) 31
Badillo-Almaraz, V., P. Trocellier and I. Dávila-Rangel, Adsorption of aqueous Zn(II) species on synthetic zeolites 210 (2003) 424

Badziak, J., see Krása, J. 205 (2003) 355
Bae, In.-T., M. Ishimaru, Y. Hirotsu, S. Matsumura and K.E. Sickafus, Ion-beam-induced amorphous structures in silicon carbide 206 (2003) 974
Baglin, J.E.E., see García-Blanco, S. 206 (2003) 440
Bahr, D.A., see Baragiola, R.A. 209 (2003) 294
Bai, X., see Liu, W. 204 (2003) 62
Bai, X.D., see Peng, D.Q. 201 (2003) 589
Baibich, M.N., see Heck, C. 206 (2003) 601
Baier, V., see Artru, X. 201 (2003) 243
Bailey, K., see Müller, P. 204 (2003) 536
Bailey, K., see Moore, I.D. 204 (2003) 701
Bailey, M., see Merabet, H. 205 (2003) 399
Bailón, L., see Hernández-Mangas, J.M. 202 (2003) 138
Bajeat, O., see Mirea, M. 201 (2003) 433
Bajeat, O., see Gibouin, S. 204 (2003) 240
Bajeat, O., see Lau, C. 204 (2003) 246
Bajeat, O., see Lau, C. 204 (2003) 257
Bajeat, O., see Essabaa, S. 204 (2003) 780
Bakhtin, A.I., see Khaibullin, R.I. 206 (2003) 277
Balabanski, D., see Lozeva, R. 204 (2003) 678
Balanzat, E., see Mélot, M. 208 (2003) 345
Balanzat, E., see Dehaye, F. 209 (2003) 103
Balanzat, E., see Mélot, M. 209 (2003) 205
Balanzat, E., see Baldacchino, G. 209 (2003) 219
Balashov, V.V., The role of transient excitations of fast highly charged ions in their stopping kinetics 205 (2003) 813
Balazs, B., see Maxwell, R.S. 208 (2003) 199
Balcázar, M. and L. Tavera, Ion-track simulation in plastics 209 (2003) 118
Baldacchino, G., G. Vigneron, J.-P. Renault, S. Pin, S. Rémita, Z. Abedinzadeh, S. Deycard, E. Balanzat, S. Bouffard, M. Gardès-Albert, B. Hickel and J.-C. Mialocq, A nanosecond pulse radiolysis study of the hydrated electron with high energy carbon ions 209 (2003) 219
Baldo, P.M., see Rehn, L.E. 206 (2003) 490
Baldo, P.M., see Birtcher, R.C. 206 (2003) 851
Balk, L., see Zmeck, M. 210 (2003) 164
Ball, G., see Melconian, D. 204 (2003) 540
Ball, G.C., see Svensson, C.E. 204 (2003) 660
Banaś, D., see Czarnota, M. 205 (2003) 133
Banaś, D., J. Braziewicz, M. Czarnota, I. Fijał, M. Jaskóła, A. Korman, W. Kretschmer, M. Pajek and J. Semaniak, Closing of Coster–Kronig transitions in multiply ionised gold atoms 205 (2003) 139
Banas, D., see Stöhlker, Th. 205 (2003) 210
Bandourko, V., N. Umeda, T. Suga, C.G. Lee, K. Kono, Y. Takeda and N. Kishimoto, Nanoparticles formation in insulators induced by Au^- and Au_2^- ion implantation 206 (2003) 606
Bandourko, V.V., see Umeda, N. 206 (2003) 657
Bandourko, V.V., see Suga, T. 206 (2003) 947
Bang Diep, T., see Hai, L. 208 (2003) 466
Banhart, F., see Krasheninnikov, A.V. 202 (2003) 224
Banks, J.C., see Rossi, P. 210 (2003) 123
Bannister, M.E., see Schippers, S. 205 (2003) 297
Bannister, M.E., see Schnell, M. 205 (2003) 367
Bannister, M.E., see Smith, A.C.H. 205 (2003) 421
Banu, A., see Lozeva, R. 204 (2003) 678
Bao, Y., see Cui, B. 204 (2003) 58
Baptista, G.B., Simultaneous ionization and excitation by photon absorption in He 201 (2003) 555
Baquey, C., see Yang, Y. 207 (2003) 165
Baquey, Ch., see Marmey, P. 208 (2003) 429
Bara, M., see Michelet-Habchi, C. 210 (2003) 354
Baragiola, R.A., see Barone, P. 209 (2003) 68

Baragiola, R.A., R.A. Vidal, W. Svendsen, J. Schou, M. Shi, D.A. Bahr and C.L. Atteberrry, Sputtering of water ice ... 209 (2003) 294
Baratta, G.A., M. Domingo, G. Ferini, G. Leto, M.E. Palumbo, M.A. Satorre and G. Strazzulla, Ion irradiation of CH_4-containing icy mixtures ... 209 (2003) 283
Barber, R.C. and K.S. Sharma, Precise atomic mass measurements by deflection mass spectrometry ... 204 (2003) 460
Barber, R.C., see Clark, J. ... 204 (2003) 487
Barbera, M., see Takács, E. ... 205 (2003) 144
Barbera, M., see Matranga, M. ... 205 (2003) 244
Barberet, Ph., see Incerti, S. ... 210 (2003) 92
Barberet, Ph., see Michelet-Habchi, C. ... 210 (2003) 354
Barbero, L., see Glasmacher, U.A. ... 209 (2003) 351
Barbolla, J., see Hernández-Mangas, J.M. ... 202 (2003) 138
Barbour, J.C., see Johnson, C.M. ... 206 (2003) 1062
Barillon, R. and T. Yamauchi, Chemical bond scission induced by $^{1}H^{+}$, $^{16}O^{8+}$, and γ-rays in a cellulose nitrate detector (O-082) ... 208 (2003) 336
Barnard, J.W., Factors influencing equipment selection in electron beam processing ... 208 (2003) 98
Barnard, J.W., see Lopata, V.J. ... 208 (2003) 102
Baron, B., see Sergeant, C. ... 210 (2003) 349
Barone, P., A. Sindona, R.A. Baragiola, A. Bonanno, A. Oliva and P. Riccardi, Sub-threshold plasmon excitation in free-electron metals by helium ions ... 209 (2003) 68
Baronick, J.P., see Essabaa, S. ... 204 (2003) 780
Barrachina, R.O., see Della Picca, R. ... 205 (2003) 539
Barrachina, R.O., see Macri, P. ... 205 (2003) 543
Barrett, R., see Vittone, E. ... 210 (2003) 159
Barros Leite, C.V., see Dias da Cunha, K. ... 201 (2003) 615
Barroso, J.J., see Ueda, M. ... 206 (2003) 760
Barry, B., see Markwitz, A. ... 210 (2003) 418
Bartoníček, B., see Plaček, V. ... 208 (2003) 448
Bartsch, T., see Brandau, C. ... 205 (2003) 66
Bartschat, K., see Merabet, H. ... 205 (2003) 399
Barue, C., see Jardin, P. ... 204 (2003) 377
Barzakh, A.E., see Andrighetto, A. ... 204 (2003) 267
Barzakh, A.E., see Panteleev, V.N. ... 204 (2003) 382
Bass, A.D., see Vichnevetski, E. ... 208 (2003) 210
Bastiaansen, J., F. Vervaecke, E. Vandeweert, P. Lievens and R.E. Silverans, Modeling the multichannel electron transfer during the sputtering of Co atoms ... 203 (2003) 158
Batalov, R.I., see Bayazitov, R.M. ... 206 (2003) 984
Batchelder, J.C., J.-C. Bilheux, C.R. Bingham, H.K. Carter, J.D. Cole, D. Fong, P.E. Garrett, R. Grzywacz, J.H. Hamilton, D.J. Hartley, J.K. Hwang, W. Krolas, D. Kulp, Y. Larochelle, A. Piechaczek, A.V. Ramayya, K.P. Rykaczewski, E.H. Spejewski, D.W. Stracener, M.N. Tantawy, J.A. Winger, J. Wood and E.F. Zganjar, The CARDS array for neutron-rich decay spectroscopy at HRIBF ... 204 (2003) 625
Battistella, A., see Rossi, P. ... 210 (2003) 123
Battistig, G., see Amsel, G. ... 201 (2003) 325
Bauer, F., H.-J. Gläsel, E. Hartmann, E. Bilz and R. Mehnert, Surface modification of nanoparticles for radiation curable acrylate clear coatings ... 208 (2003) 267
Bauer, F., see Gläsel, H.-J. ... 208 (2003) 303
Bauer, G., see Lettry, J. ... 204 (2003) 251
Bauer, P., see Draxler, M. ... 203 (2003) 218
Baumann, H., see Markwitz, A. ... 206 (2003) 179
Bayazitov, R.M., I.B. Khaibullin, R.I. Batalov, R.M. Nurutdinov, L.Kh. Antonova, V.P. Aksenov and G.N. Mikhailova, Structure and photoluminescent properties of SiC layers on Si, synthesized by pulsed ion-beam treatment ... 206 (2003) 984
Bazarov, V.V., see Khaibullin, R.I. ... 206 (2003) 277
Bazin, D., see Tarasov, O.B. ... 204 (2003) 174
Bazin, D., J.A. Caggiano, B.M. Sherrill, J. Yurkon and A. Zeller, The S800 spectrograph ... 204 (2003) 629
Beals, T.R., see Kiefl, R.F. ... 204 (2003) 682
Beausang, C.W., see Ressler, J.J. ... 204 (2003) 141

Beausang, C.W., GRETA: the gamma-ray energy-tracking array. Status of the development and physics opportunities ... 204 (2003) 666
Beauvy, M., see Trocellier, P. ... 206 (2003) 1077
Beauvy, M., see Trocellier, P. ... 210 (2003) 507
Beck, D., see Blaum, K. ... 204 (2003) 478
Beck, D., see Sikler, G. ... 204 (2003) 482
Beck, D., see Beck, M. ... 204 (2003) 521
Beck, M., F. Ames, D. Beck, G. Bollen, B. Delauré, J. Deutsch, V.V. Golovko, V.Yu. Kozlov, I.S. Kraev, A. Lindroth, T. Phalet, W. Quint, K. Reisinger, P. Schuurmans, N. Severijns, B. Vereecke, S. Versyck and The EUROTRAPS Collaboration, WITCH: a recoil spectrometer for β-decay ... 204 (2003) 521
Becker, G., see Taucher-Scholz, G. ... 209 (2003) 270
Becker, H.-W., see Schweitzer, J.S. ... 207 (2003) 80
Becker, K., see Gstir, B. ... 205 (2003) 413
Becquart, C.S. and C. Domain, Ab initio contribution to the study of complexes formed during dilute FeCu alloys radiation ... 202 (2003) 44
Becquart, C.S., see Khrushcheva, O. ... 202 (2003) 68
Bednarz, G., see Gumberidze, A. ... 205 (2003) 374
Bednarz, G., see Ma, X. ... 205 (2003) 550
Bednarz, G., D. Sierpowski, Th. Stöhlker, A. Warczak, H. Beyer, F. Bosch, A. Bräuning-Demian, H. Bräuning, X. Cai, A. Gumberidze, S. Hagmann, C. Kozhuharov, D. Liesen, X. Ma, P.H. Mokler, A. Muthig, Z. Stachura and S. Toleikis, Double-electron capture in relativistic U^{92+} collisions at the ESR gas-jet target ... 205 (2003) 573
Bednarz, G., see Bräuning, H. ... 205 (2003) 826
Beeman, J., see Takács, E. ... 205 (2003) 144
Beeman, J., see Matranga, M. ... 205 (2003) 244
Begue, J., see Betz, N. ... 208 (2003) 434
Behar, E., see Beiersdorfer, P. ... 205 (2003) 173
Behar, M., see Fink, D. ... 209 (2003) 310
Behr, J., see Kiefl, R.F. ... 204 (2003) 682
Behr, J.A., Neutral atom traps of radioactives ... 204 (2003) 526
Behr, J.A., see Melconian, D. ... 204 (2003) 540
Behr, J.A., see Levy, C.D.P. ... 204 (2003) 689
Behr, K.H., see Geissel, H. ... 204 (2003) 71
Behr, K.-H., see Scheidenberger, C. ... 204 (2003) 119
Behr, K.-H., see Winkler, M. ... 204 (2003) 454
Beier, T., S. Djekic, H. Häffner, P. Indelicato, H.-J. Kluge, W. Quint, V.M. Shabaev, J. Verdú, T. Valenzuela, G. Werth and V.A. Yerokhin, Determination of the electron's mass from *g*-factor experiments on $^{12}C^{5+}$ and $^{16}O^{7+}$ ... 205 (2003) 15
Beier, T., see Shabaev, V.M. ... 205 (2003) 20
Beier, Th., see Werth, G. ... 205 (2003) 1
Beiersdorfer, P., J.R. Crespo López-Urrutia, S.B. Utter, E. Träbert, M.G.H. Gustavsson, C. Forssén and A.-M. Mårtensson-Pendrill, Hyperfine structure of heavy hydrogen-like ions ... 205 (2003) 62
Beiersdorfer, P., see Träbert, E. ... 205 (2003) 83
Beiersdorfer, P., E. Behar, K.R. Boyce, G.V. Brown, H. Chen, K.C. Gendreau, A. Graf, M.-F. Gu, C.L. Harris, S.M. Kahn, R.L. Kelley, J.K. Lepson, M.J. May, P.A. Neill, E.H. Pinnington, F.S. Porter, A.J. Smith, C.K. Stahle, A.E. Szymkowiak, A. Tillotson, D.B. Thorn, E. Träbert and B.J. Wargelin, Overview of the Livermore electron beam ion trap project ... 205 (2003) 173
Beigman, I., P. Defrance and L. Vainshtein, Electron impact ionization of Kr^{10+}–Kr^{18+} ions ... 205 (2003) 427
Beikler, R., see Draxler, M. ... 203 (2003) 218
Bekhterev, V., see Efremov, A. ... 204 (2003) 368
Bekhterev, V.V., see Oganessian, Yu.Ts. ... 204 (2003) 606
Belgaid, M., T. Segueni, F. Kadem and M. Asghar, Semi-empirical systematics of (n,t) cross-sections for 14.5 MeV neutrons ... 201 (2003) 545
Belko, V., M. Posselt and E. Chagarov, Improvement of the repulsive part of the classical interatomic potential for SiC ... 202 (2003) 18
Bell, F., see Schubert, M. ... 209 (2003) 224
Bell, J., see Tesfamichael, T. ... 201 (2003) 581
Bellon, P., see Enrique, R.A. ... 202 (2003) 206

Bellucci, S., V.M. Biryukov, Yu.A. Chesnokov, V. Guidi and W. Scandale, Channeling of high energy beams in nanotubes 202 (2003) 236
Belmont-Moreno, E., see Menchaca-Rocha, A. 201 (2003) 426
Belmont-Moreno, E., see Menchaca-Rocha, A. 207 (2003) 356
Beloborodov, K., see Artru, X. 201 (2003) 243
Belogorohov, A.S., see Gerasimenko, N.N. 206 (2003) 644
Beloto, A.F., M.D. Silva, J.R. Senna, C. Kuranaga, N.F. Leite and M. Ueda, Photoluminescence and reflectance measurements on annealed porous silicon implanted with nitrogen by plasma immersion ion implantation (PIII) 206 (2003) 677
Belov, A.Yu. and H.U. Jäger, Simulation of the non-equilibrium processes for tetrahedral amorphous carbon: Deposition and structural relaxation 202 (2003) 242
Belykh, S.F., V.V. Palitsin, I.V. Veryovkin, A. Adriaens and F. Adams, Non-additive sputtering of niobium and tantalum as neutral and charged clusters 203 (2003) 164
Belykh, S.F., V.V. Palitsin, A. Adriaens and F. Adams, Effect of the relaxation of the electron subsystem excitation in metals on the ionization probability of sputtered atoms 203 (2003) 172
Bénazeth, C., see Cafarelli, P. 203 (2003) 211
Benedikt, M., see Lettry, J. 204 (2003) 251
Benis, E.P., see Zouros, T.J.M. 205 (2003) 508
Benis, E.P., M. Zamkov, P. Richard and T.J.M. Zouros, Comparison of two experimental techniques for the determination of the 1s2s ^{3}S metastable beam fraction in energetic B^{3+} ions 205 (2003) 517
Benis, E.P., see Zamkov, M. 205 (2003) 522
Benka, O. and M. Steinbatz, Temperature dependence of the electron and ion induced electron emission yield of Al, Cu and Ag 201 (2003) 396
Benlliure, J., see Geissel, H. 204 (2003) 71
Benlliure, J., see Pereira-Conca, J. 204 (2003) 517
Bennett, J., see van der Heide, P.A.W. 201 (2003) 413
Bennett, J.R.J., An improved analytical model of diffusion through the RIST target 204 (2003) 211
Bennett, J.R.J., U.C. Bergmann, P.V. Drumm, H. Ravn and Members of the ISOLDE Collaboration, The development of fast tantalum foil targets for short-lived isotopes 204 (2003) 215
Benson, C.E., see Frederickson, A.R. 208 (2003) 454
Benson, R., see Chipara, M. 208 (2003) 390
Benyagoub, A., Kinetics of the crystalline to crystalline phase transformation induced in pure zirconia by swift heavy ion irradiation 206 (2003) 132
Benyagoub, A., see Müller, C. 209 (2003) 175
Berar, J.-F., see Hennet, L. 207 (2003) 447
Berestov, A.V., see Andrukhovich, S.K. 207 (2003) 219
Berg, G.P., P. Dendooven, O. Dermois, M.N. Harakeh, R. Hoekstra, K. Jungmann, S. Kopecky, R. Morgenstern, A. Rogachevskiy, R. Timmermans, L. Willmann and H.W. Wilschut, TRIμP – a radioactive isotope trapping facility under construction at KVI 204 (2003) 532
Berger, P., R. El Tahhann, G. Moulin and M. Viennot, High temperature oxidation of zirconium and zircaloy-4 under applied load: Nuclear microprobe study of the growth of the oxide 210 (2003) 519
Bergmaier, A., see Schubert, M. 209 (2003) 224
Bergmann, U., see Kester, O. 204 (2003) 20
Bergmann, U.C., see Bennett, J.R.J. 204 (2003) 215
Bergmann, U.C., G. Auböck, R. Catherall, J. Cederkäll, C.Aa. Diget, L. Fraile, S. Franchoo, H. Fynbo, H. Gausemel, U. Georg, T. Giles, H. Jeppesen, O.C. Jonsson, U. Köster, J. Lettry, T. Nilsson, K. Peräjärvi, H. Ravn, K. Riisager, L. Weissman, J. Äystö and The ISOLDE Collaboration, Production yields of noble-gas isotopes from ISOLDE UC_x/graphite targets 204 (2003) 220
Bergmann, U.C., see Peräjärvi, K. 204 (2003) 272
Bergmann, U.C., see Köster, U. 204 (2003) 303
Bergmann, U.C., see Köster, U. 204 (2003) 347
Bernard, J., S. Martin, L. Chen, H. Cederquist, A. Salmoun and R. Brédy, A single ion (Ar^{q+} $q = 1,3$ or C_{60}^{3+}) in a conic electrode electrostatic trap 205 (2003) 196
Bernard, J., see Brédy, R. 205 (2003) 651
Bernard, J., see Martin, S. 209 (2003) 265
Bernas, H., see Ruault, M.-O. 206 (2003) 912
Bernas, H., see Canut, B. 209 (2003) 335

Bernhard, T., R. Pfandzelter and H. Winter, Non-Arrhenius growth behavior, bilayer and reentrant layer growth for ultrathin Co films on Cu(001) ... 203 (2003) 111
Berset, M., see Rzadkiewicz, J. ... 205 (2003) 128
Berset, M., see Czarnota, M. ... 205 (2003) 133
Berti, M., see De Salvador, D. ... 206 (2003) 922
Bertolus, M., see Romano, A. ... 202 (2003) 100
Bespalov, V.I., V.V. Kashkovsky and V.L. Chakhlov, Generation of bremsstrahlung during multiple passes of accelerated electrons through a thin target in a betatron ... 201 (2003) 292
Bettiol, A.A., see Watt, F. ... 210 (2003) 14
Bettiol, A.A., T.C. Sum, J.A. van Kan and F. Watt, Fabrication of micro-optical components in polymer using proton beam micro-machining and modification ... 210 (2003) 250
Bettiol, A.A., see Udalagama, C.N.B. ... 210 (2003) 256
Bettiol, A.A., see Sum, T.C. ... 210 (2003) 266
Bettiol, A.A., see Teo, E.J. ... 210 (2003) 501
Betz, G., see Nakagawa, S.T. ... 202 (2003) 149
Betz, N., J. Begue, M. Goncalves, K. Gionnet, G. Déléris and A. Le Moël, Functionalisation of PAA radiation grafted PVDF ... 208 (2003) 434
Beuve, M., see Gervais, B. ... 205 (2003) 835
Beuve, M., see Khalfaoui, N. ... 209 (2003) 304
Beyer, G.J., E. Hagebø, A.F. Novgorodov, H.L. Ravnand and The ISOLDE Collaboration, The role of diffusion in ISOL targets for the production of radioactive ion beams ... 204 (2003) 225
Beyer, G.J. and T.J. Ruth, The role of electromagnetic separators in the production of radiotracers for biomedical research and nuclear medical application ... 204 (2003) 694
Beyer, H., see Bednarz, G. ... 205 (2003) 573
Beyer, H.F., see Stöhlker, Th. ... 205 (2003) 156
Beyer, H.F., see Stöhlker, Th. ... 205 (2003) 210
Beyer, H.F., see Gumberidze, A. ... 205 (2003) 374
Bharuth-Ram, K., see Weyer, G. ... 206 (2003) 90
Bharuth-Ram, K., U. Wahl and J.G. Correia, Lattice location of Fe in diamond ... 206 (2003) 941
Bhuloka Reddy, S., M. John Charles, G.J. Naga Raju, V. Vijayan, B. Seetharami Reddy, M. Ravi Kumar and B. Sundareswar, Trace elemental analysis of carcinoma kidney and stomach by PIXE method ... 207 (2003) 345
Bibić, N., see Dhar, S. ... 205 (2003) 741
Biedermann, C., see Hutton, R. ... 205 (2003) 114
Biedermann, C., see Radtke, R. ... 205 (2003) 250
Biedermann, C., R. Radtke and K. Fournier, Line ratios and wavelengths of helium-like argon $n = 2$ satellite transitions and resonance lines ... 205 (2003) 255
Bienvenu, G., see Essabaa, S. ... 204 (2003) 780
Biersack, J.P., Editorial ... 202 (2003) vii
Bigelow, A.W., G. Randers-Pehrson and D.J. Brenner, Proposed laser ion source for the Columbia University microbeam ... 210 (2003) 65
Bilek, M.M.M., see McKenzie, D.R. ... 206 (2003) 741
Bilheux, J.-C., see Batchelder, J.C. ... 204 (2003) 625
Billowes, J., see Nieminen, A. ... 204 (2003) 563
Bilz, E., see Bauer, F. ... 208 (2003) 267
Bingham, C.R., see Batchelder, J.C. ... 204 (2003) 625
Biri, S., see Anagnostopoulos, D.F. ... 205 (2003) 9
Biró, K.T., see Sziki, G.Á. ... 210 (2003) 478
Birtcher, R.C., see Mitsuishi, K. ... 206 (2003) 109
Birtcher, R.C., see Ono, K. ... 206 (2003) 114
Birtcher, R.C., see Nordlund, K. ... 206 (2003) 189
Birtcher, R.C., see Donnelly, S.E. ... 206 (2003) 422
Birtcher, R.C., see Rehn, L.E. ... 206 (2003) 490
Birtcher, R.C., A.W. McCormick, P.M. Baldo, N. Toyoda, I. Yamada and J. Matsuo, Gold nanoparticles sputtered by single ions and clusters ... 206 (2003) 851
Biryukov, V.M., see Vodopianov, A.S. ... 201 (2003) 266
Biryukov, V.M., see Bellucci, S. ... 202 (2003) 236

Bisello, D., A. Candelori, M. Dal Maschio, P. Giubilato, A. Kaminski, M. Nigro, D. Pantano, R. Rando, S. Sedykh, M. Tessaro and J. Wyss, Status of the ion electron emission microscope at the SIRAD single event effect facility 210 (2003) 142
Bisognin, G., see De Salvador, D. 206 (2003) 922
Bizau, J.M., E. Bouisset, C. Blancard, J.P. Champeaux, A. Compant la Fontaine, C. Couillaud, D. Cubaynes, D. Hitz, C. Vinsot and F.J. Wuilleumier, Recent results on the photoionisation of multiply-charged ions . 205 (2003) 290
Blaauw, M., see Degenaar, H. 207 (2003) 131
Blancard, C., see Bizau, J.M. 205 (2003) 290
Blasco, F., T. Caillaud, F. Dorchies, C. Stenz, J. Stevefelt, A.S. Boldarev and V.A. Gasilov, Characterization of argon cluster jets for laser interaction studies 205 (2003) 324
Blasco, F., see Caillaud, T. 205 (2003) 329
Blaum, K., see Wendt, K.D.A. 204 (2003) 325
Blaum, K., C. Geppert, H.-J. Kluge, M. Mukherjee, S. Schwarz and K. Wendt, A novel scheme for a highly selective laser ion source 204 (2003) 331
Blaum, K., D. Beck, G. Bollen, F. Herfurth, A. Kellerbauer, H.-J. Kluge, R.B. Moore, E. Sauvan, C. Scheidenberger, S. Schwarz and L. Schweikhard, Pushing the relative mass accuracy limit of ISOLTRAP on exotic nuclei below 10 ppb 204 (2003) 478
Blazhev, A., see Roeckl, E. 204 (2003) 53
Blonskaya, I.V., see Apel, P.Yu. 209 (2003) 329
Bluhme, H., see Uggerhøj, U.I. 207 (2003) 402
Boatner, L.A., see Meldrum, A. 207 (2003) 28
Boatner, L.A., see Meldrum, A. 207 (2003) 36
Boatner, L.A., see Jiang, W. 207 (2003) 85
Bocage, F., see Gibouin, S. 204 (2003) 240
Bochek, G., see Artru, X. 201 (2003) 243
Bockman, J.F., see Frederickson, A.R. 208 (2003) 454
Bocquet, J.L., see Doan, N.V. 202 (2003) 8
Bodart, F., see Cabioc'h, T. 207 (2003) 409
Bodmann, B., see Zoufal, T. 208 (2003) 471
Bodmann, B., S. Göb and U. Holm, LET effects of neutron irradiated plastic scintillators 208 (2003) 495
Boemare, C., see Alves, E. 206 (2003) 1047
Bogaerts, A., see Neyts, E. 202 (2003) 300
Bogaerts, A., see Chen, Z.Y. 207 (2003) 415
Bogdanov, A., see Artru, X. 201 (2003) 243
Bogdanov, A.A., see Vodopianov, A.S. 201 (2003) 266
Bogdanov, D.D., see Rodin, A.M. 204 (2003) 114
Bogdanovich, P., R. Karpuškienė and I. Martinson, Theoretical lifetimes for all states of five Cl X configurations 205 (2003) 70
Bogomazova, E.A., B.N. Kalinin, G.A. Naumenko, D.V. Padalko, A.P. Potylitsyn, A.F. Sharafutdinov and I.E. Vnukov, Diffraction of real and virtual photons in a pyrolytic graphite crystal as source of intensive quasimonochromatic X-ray beam 201 (2003) 276
Bogomolov, S., see Efremov, A. 204 (2003) 368
Bogomolov, S.L., see Oganessian, Yu.Ts. 204 (2003) 606
Böhm, S., see Brandau, C. 205 (2003) 66
Böhm, S., see Kieslich, S. 205 (2003) 99
Böhm, S., see Schnell, M. 205 (2003) 367
Böhm, S., A. Müller, S. Schippers, W. Shi, H. Danared, N. Eklöw, M. Fogel, R. Schuch, N. Djurić, G.H. Dunn and K.B. MacAdam, Measurement of the field-induced dielectronic recombination rate enhancement of N^{4+} ions differential in the Rydberg quantum number n 205 (2003) 370
Böhme, C., see Brandau, C. 205 (2003) 66
Böhme, C., see Knopp, H. 205 (2003) 433
Böhmer, M., see Geissel, H. 204 (2003) 71
Bohne, Y., see Hammerl, C. 206 (2003) 1072
Boisbourdain, V., see Anagnostopoulos, D.F. 205 (2003) 9
Boizot, B., V. Métayer, P. Trocellier, D. Ghaleb and G. Petite, Carbon mapping in high temperature irradiated glasses 210 (2003) 537
Boldarev, A.S., see Blasco, F. 205 (2003) 324

Bolfan-Casanova, N., see Bureau, H. 210 (2003) 449
Bollen, G., see Kester, O. 204 (2003) 20
Bollen, G. and S. Schwarz, Ion traps for radioactive beam manipulation and precision experiments 204 (2003) 466
Bollen, G., see Schwarz, S. 204 (2003) 474
Bollen, G., see Blaum, K. 204 (2003) 478
Bollen, G., see Schwarz, S. 204 (2003) 507
Bollen, G., see Beck, M. 204 (2003) 521
Bolotovskii, B.M. and A.V. Serov, Coherent transition radiation from spherical electron bunch 201 (2003) 49
Bolotovskii, B.M., see Serov, A.V. 201 (2003) 91
Bolse, W. and B. Schattat, Atomic transport in hot ion tracks 209 (2003) 32
Bommas, C., see Kiefl, R.F. 204 (2003) 682
Bonanno, A., see Barone, P. 209 (2003) 68
Bongers, H., see Habs, D. 204 (2003) 739
Borbély-Kiss, I., see Uzonyi, I. 210 (2003) 147
Borcea, R., see Lau, C. 204 (2003) 257
Borchert, G., see Anagnostopoulos, D.F. 205 (2003) 9
Bordenave-Montesquieu, A., P. Moretto-Capelle and D. Bordenave-Montesquieu, An accurate test of calculated positions and lifetimes for Ne^{6+} ($1s^2 3lnl'$ ^1L states ($n = 3$ and 4) using a high-resolution electron spectroscopy 205 (2003) 74
Bordenave-Montesquieu, A., see Laurent, G. 205 (2003) 546
Bordenave-Montesquieu, A., see Rentenier, A. 205 (2003) 656
Bordenave-Montesquieu, D., see Bordenave-Montesquieu, A. 205 (2003) 74
Bordenave-Montesquieu, D., see Laurent, G. 205 (2003) 546
Bordenave-Montesquieu, D., see Rentenier, A. 205 (2003) 656
Bordovitsyn, V.A., V.G. Bulenok and T.O. Pozdeeva, On the wave zone of radiation 201 (2003) 9
Borisov, A.G., see Sjakste, J. 203 (2003) 49
Borodin, A., O. Höfft, S. Krischok and V. Kempter, The interaction of CsCl with films of solid water 203 (2003) 205
Borodin, V.A., Topological approach to separate order from disorder in simulated atomic arrays 202 (2003) 13
Borodin, V.A., A.E. Volkov and D.N. Korolev, Viscous flow of amorphous metals in swift heavy ion tracks 209 (2003) 122
Bortolot, V.J., see Erfurt, G. 207 (2003) 487
Bosch, F., see Brandau, C. 205 (2003) 66
Bosch, F., see Stöhlker, Th. 205 (2003) 156
Bosch, F., see Gumberidze, A. 205 (2003) 374
Bosch, F., see Ma, X. 205 (2003) 550
Bosch, F., see Bednarz, G. 205 (2003) 573
Bosch, F., see Dauvergne, D. 205 (2003) 773
Bosch, F., see Bräuning, H. 205 (2003) 826
Boudreau, C., see Clark, J. 204 (2003) 487
Boudreau, C., see Savard, G. 204 (2003) 582
Boudreault, G., see Webb, R.P. 202 (2003) 143
Bouffard, S., see Khalfaoui, N. 209 (2003) 165
Bouffard, S., see Baldacchino, G. 209 (2003) 219
Bouffard, S., see Khalfaoui, N. 209 (2003) 304
Bouisset, E., see Bizau, J.M. 205 (2003) 290
Bourdon, J.-C., see Essabaa, S. 204 (2003) 780
Bourgeois, Ch., see Lau, C. 204 (2003) 257
Boursereau, F., see Lopitaux, G. 208 (2003) 500
Bovier, C., see Canut, B. 209 (2003) 335
Bower, R.W., see Verda, R.D. 206 (2003) 927
Boyce, K.R., see Beiersdorfer, P. 205 (2003) 173
Bozek, J., see Schippers, S. 205 (2003) 297
Bozhenok, A., see Artru, X. 201 (2003) 243
Brage, T., see Morishita, Y. 205 (2003) 758
Brandau, C., T. Bartsch, S. Böhm, C. Böhme, A. Hoffknecht, H. Knopp, S. Schippers, W. Shi, A. Müller, N. Grün, W. Scheid, T. Steih, F. Bosch, B. Franzke, C. Kozhuharov, P.H. Mokler, F. Nolden, M. Steck, T. Stöhlker and Z. Stachura, Autoionizing high-Rydberg states of very heavy Be-like ions: A tool for precision spectroscopy 205 (2003) 66

Brandau, C., see Kieslich, S. 205 (2003) 99
Braun, J., see Mironov, V. 205 (2003) 183
Bräuning, H., see Aichele, K. 205 (2003) 437
Bräuning, H., A. Diehl, A. Theiß, R. Trassl and E. Salzborn, Electron transfer and ionisation in homonuclear collisions of triply charged Ar and Kr ions 205 (2003) 555
Bräuning, H., see Bednarz, G. 205 (2003) 573
Bräuning, H., see Dauvergne, D. 205 (2003) 773
Bräuning, H., A. Bräuning-Demian, G. Bednarz, F. Bosch, X. Cai, C. Cohen, D. Dauvergne, A. Gumberidze, R. Kirsch, C. Kozhuharov, D. Liesen, P.H. Mokler, J.-P. Rozet, Z. Stachura, Th. Stöhlker, M. Terasawa, S. Toleikis and A. Warczak, Multiple electron capture from thin C-foils into 46 MeV/u U^{91+} 205 (2003) 826
Bräuning-Demian, A., see Stöhlker, Th. 205 (2003) 156
Bräuning-Demian, A., see Bednarz, G. 205 (2003) 573
Bräuning-Demian, A., see Dauvergne, D. 205 (2003) 773
Bräuning-Demian, A., see Bräuning, H. 205 (2003) 826
Braziewicz, J., see Banaś, D. 205 (2003) 139
Braziewicz, J., see Majewska, U. 205 (2003) 799
Brédy, R., H. Nguyen, H. Camp, X. Fléchard and B.D. DePaola, MOTRIMS as a generalized probe of AMO processes 205 (2003) 191
Brédy, R., see Bernard, J. 205 (2003) 196
Brédy, R., J. Bernard, L. Chen, M.C. Buchet-Poulizac, A. Salmoun and S. Martin, Energy loss in Ar^{16+}, Kr^{16+}, Xe^{16+}–C_{60} collisions at low energy 205 (2003) 651
Brédy, R., see Martin, S. 209 (2003) 265
Breese, M.B.H., see Watt, F. 210 (2003) 14
Breese, M.B.H., see Seng, H.L. 210 (2003) 483
Bremer, J.H., see Pešić, Z.D. 203 (2003) 96
Brenner, D.J., see Bigelow, A.W. 210 (2003) 65
Brewer, J., see Kiefl, R.F. 204 (2003) 682
Bricault, P., see Dombsky, M. 204 (2003) 191
Bricault, P., M. Dombsky, A. Dowling and M. Lane, High power target developments at ISAC 204 (2003) 319
Bricault, P., see Dilling, J. 204 (2003) 492
Bricault, P., see Melconian, D. 204 (2003) 540
Brice, D.K., see Rossi, P. 210 (2003) 85
Brickhouse, N., see Takács, E. 205 (2003) 144
Bringa, E.M., B.D. Wirth, M.J. Caturla, J. Stölken and D. Kalantar, Metals far from equilibrium: From shocks to radiation damage 202 (2003) 56
Bringa, E.M., see Papaléo, R.M. 206 (2003) 7
Bringa, E.M., Molecular dynamics simulations of Coulomb explosion 209 (2003) 1
Broniatowski, A., see Canut, B. 209 (2003) 335
Brown, B.A., see Melconian, D. 204 (2003) 540
Brown, G.V., see Beiersdorfer, P. 205 (2003) 173
Brown, I.G., see Yu, L.D. 206 (2003) 586
Bruch, R., see Merabet, H. 205 (2003) 399
Bruch, R. and H. Merabet and K.T. Chung, Excitation of triply excited Be^+ ($2lnl'n'l''$) states in 300 and 500 keV-$Be^+ + CH_4$ collisions 205 (2003) 488
Brucherstseifer, H., see Lettry, J. 204 (2003) 251
Brunella, V., see Baccaro, S. 208 (2003) 195
Brünle, A., see Geissel, H. 204 (2003) 71
Brunner, H., see Hegemann, D. 208 (2003) 281
Bryja, L., see Misiuk, A. 207 (2003) 233
Buchet, J.P., see Farizon, B. 209 (2003) 9
Buchet-Poulizac, M.C., A. Cassimi, G. Cremer, J.-P. Grandin, D. Hennecart, X. Husson, E. Jacquet and J.-F. Wyart, Extreme UV observation of 3–3 transitions of niobium in near neon-like charge states 205 (2003) 106
Buchet-Poulizac, M.C., see Brédy, R. 205 (2003) 651
Buchet-Poulizac, M.C., see Martin, S. 209 (2003) 265
Buchinger, F., see Clark, J. 204 (2003) 487
Buchinger, F., see Savard, G. 204 (2003) 582
Buchmann, L., see Engel, S. 204 (2003) 416

Budnar, M., see Razpet, A. ... 201 (2003) 535
Budzanowski, A., see Artukh, A.G. ... 204 (2003) 159
Bugayov, V.V., see Aharonian, F.A. ... 201 (2003) 217
Bukin, A., see Artru, X. ... 201 (2003) 243
Bulenok, V.G., see Bordovitsyn, V.A. ... 201 (2003) 9
Bungay, C., see Woollam, J.A. ... 208 (2003) 35
Burdin, S., see Artru, X. ... 201 (2003) 243
Bureau, H., B. Ménez, H. Khodja, L. Daudin, J.-P. Gallien, D. Massare, C. Shaw and N. Métrich, The partitioning of barium and lead between silicate melts and aqueous fluids at high pressures and temperatures ... 210 (2003) 434
Bureau, H., P. Trocellier, C. Shaw, H. Khodja, N. Bolfan-Casanova and S. Demouchy, Determination of the concentration of water dissolved in glasses and minerals using nuclear microprobe ... 210 (2003) 449
Burford, R.P., M.G. Markotsis and R.B. Knott, Small angle neutron scattering and transmission electron microscopy studies of interpenetrating polymer networks from thermoplastic elastomers ... 208 (2003) 58
Burgdörfer, J., C.O. Reinhold and F. Meyer, Interaction of highly charged ions with insulator surfaces at low velocities: Estimates for Auger rates ... 205 (2003) 690
Burgdörfer, J., see Minami, T. ... 205 (2003) 818
Burgdörfer, J., see Seliger, M. ... 205 (2003) 830
Burkard, K., see Roeckl, E. ... 204 (2003) 53
Burkard, K., see Geissel, H. ... 204 (2003) 71
Burlón, A., see Ozafrán, M.J. ... 201 (2003) 317
Buschhorn, G., see Pugachov, D. ... 201 (2003) 55
Bushaw, B.A., see Wendt, K.D.A. ... 204 (2003) 325
Butler, P.A., see Page, R.D. ... 204 (2003) 634
Butler, P.A., see Uusitalo, J. ... 204 (2003) 638
Butz, T., see Spemann, D. ... 210 (2003) 79
Butz, T., see Reinert, T. ... 210 (2003) 395
Butz, T., see Spemann, D. ... 210 (2003) 531

Cabioc'h, T., E. Thune, M. Jaouen and F. Bodart, Resonant nuclear reaction analysis study of carbon phase formation during carbon ion-implantation into silver substrates ... 207 (2003) 409
Cabrera, J.I., see Menchaca-Rocha, A. ... 207 (2003) 356
Cáceres, D., see Alves, E. ... 206 (2003) 148
Cafarelli, P., M. Richard-Viard, C. Bénazeth, N. Nieuwjaer and N. Lorente, Simulations of the azimuthal distribution of low-energy H atoms scattered off Ag(110) at grazing incidence: DFT many-body versus model pair potentials ... 203 (2003) 211
Caggiano, J.A., see Bazin, D. ... 204 (2003) 629
Cai, X., see Gumberidze, A. ... 205 (2003) 374
Cai, X., see Bednarz, G. ... 205 (2003) 573
Cai, X., see Bräuning, H. ... 205 (2003) 826
Caillaud, T., see Blasco, F. ... 205 (2003) 324
Caillaud, T., F. Blasco, F. Dorchies, Y. Glinec, Ch. Stenz and J. Stevefelt, Experimental study of K-shell X-ray emission from argon clusters irradiated by an ultra-intense laser pulse ... 205 (2003) 329
Callegari, A.C., see Doyle, J.P. ... 206 (2003) 467
Camp, H., see Brédy, R. ... 205 (2003) 191
Campbell, E.E.B., see Popok, V.N. ... 207 (2003) 145
Campbell, P., see Nieminen, A. ... 204 (2003) 563
Candelori, A., see Bisello, D. ... 210 (2003) 142
Canet, C., see Jardin, P. ... 204 (2003) 377
Canut, B., A. Merlen, V. Teodorescu, C. Ghica, C.S. Sandu, S.M.M. Ramos, C. Bovier, R. Espiau de la Maestre, A. Broniatowski and H. Bernas, Ion beam photography in sol–gel NiO–SiO_2 films ... 209 (2003) 335
Cappuzzello, F., see Shchepunov, V.A. ... 204 (2003) 447
Caprio, M.A., see Ressler, J.J. ... 204 (2003) 141
Carbajal, M.L., E.E. Smolko and M. Grasselli, Oriented immobilization of proteins on grafted porous polymers ... 208 (2003) 416
Cardoso, E.C.L., see Lugão, A.B. ... 208 (2003) 252
Carli, C., see Müllers, B. ... 207 (2003) 462
Carminati, D., see Köster, U. ... 204 (2003) 303
Carnazza, S., see Satriano, C. ... 208 (2003) 287

Carnera, A., see De Salvador, D. ... 206 (2003) 922
Caron, M., see Gervais, B. ... 205 (2003) 835
Caron, M., see Khalfaoui, N. ... 209 (2003) 304
Carpenter, K.A., see Shalaby, S.W. ... 208 (2003) 110
Carré, M., see Farizon, B. ... 209 (2003) 9
Carriere, M., see Khodja, H. ... 210 (2003) 359
Carrot, F., see Khodja, H. ... 210 (2003) 359
Carstanjen, H.D., see Robin, A. ... 209 (2003) 259
Carter, G., see Donnelly, S.E. ... 206 (2003) 422
Carter, H.K., see Batchelder, J.C. ... 204 (2003) 625
Casandjian, J.M., see Gibouin, S. ... 204 (2003) 240
Cassimi, A., see Buchet-Poulizac, M.C. ... 205 (2003) 106
Cassimi, A., see Laurent, G. ... 205 (2003) 546
Casten, R.F., see Ressler, J.J. ... 204 (2003) 141
Cataldo, F., see Baccaro, S. ... 208 (2003) 191
Catherall, R., see Bergmann, U.C. ... 204 (2003) 220
Catherall, R., J. Lettry, S. Gilardoni, U. Köster and The ISOLDE Collaboration, Radioactive ion beams produced by neutron-induced fission at ISOLDE ... 204 (2003) 235
Catherall, R., see Lettry, J. ... 204 (2003) 251
Catherall, R., see Köster, U. ... 204 (2003) 303
Catherall, R., see Köster, U. ... 204 (2003) 343
Catherall, R., see Köster, U. ... 204 (2003) 347
Catherall, R., see Lettry, J. ... 204 (2003) 363
Catherall, R., see Giles, T.J. ... 204 (2003) 497
Caturla, M., see Felter, T.E. ... 207 (2003) 72
Caturla, M.J., see Bringa, E.M. ... 202 (2003) 56
Caturla, M.-J., see Kubota, A. ... 202 (2003) 88
Cavenago, M., Optimisation of highly charged ion currents and efficiency in ECR ion sources ... 205 (2003) 225
Çaykara, T., see İnam, R. ... 208 (2003) 400
Cechak, T., see Guillerminet, C. ... 207 (2003) 124
Cecilia, A., see Wang, S. ... 201 (2003) 475
Cecilia, A., see Baccaro, S. ... 208 (2003) 191
Cecilia, A., see Baccaro, S. ... 208 (2003) 195
Cederkäll, J., see Kester, O. ... 204 (2003) 20
Cederkäll, J., see Bergmann, U.C. ... 204 (2003) 220
Cederkäll, J., see Köster, U. ... 204 (2003) 303
Cederkäll, J., see Köster, U. ... 204 (2003) 347
Cederkäll, J., see Wolf, B.H. ... 204 (2003) 428
Cederquist, H., see Bernard, J. ... 205 (2003) 196
Cederquist, H., see Jensen, J. ... 205 (2003) 643
Celette, N., see Davenas, J. ... 208 (2003) 461
Celona, L., see Ciavola, G. ... 204 (2003) 410
Celona, L., see Gammino, S. ... 205 (2003) 162
Cemmi, A., see Baccaro, S. ... 208 (2003) 191
Cernusca, S., HP. Winter, F. Aumayr, R. Díez Muiño and J.I. Juaristi, Molecular projectile effects for kinetic electron emission from carbon- and metal-surfaces bombarded by slow hydrogen ions ... 203 (2003) 1
Cernusca, S., see Gebeshuber, I.C. ... 205 (2003) 751
Cerny, J., see Powell, J. ... 204 (2003) 440
Cerruti, C., see D'Orléans, C. ... 209 (2003) 316
Chagarov, E., see Belko, V. ... 202 (2003) 18
Chakarov, I.R., see Ignatova, V.A. ... 202 (2003) 24
Chakhlov, V.L., see Bespalov, V.I. ... 201 (2003) 292
Chambers, S.A., see Wang, C.M. ... 207 (2003) 1
Champeaux, J.P., see Bizau, J.M. ... 205 (2003) 290
Champion, C., Multiple ionization of water by heavy ions: a Monte Carlo approach ... 205 (2003) 671
Chandezon, F., see Manil, B. ... 205 (2003) 684
Chany, P., see Raoux, A.-C. ... 207 (2003) 186

Chassé, T., H. Neumann and B. Rauschenbach, Ion beam assisted deposition of multi-layer X-ray mirrors for the extreme ultraviolet lithography 206 (2003) 377
Chaudhari, P., see Doyle, J.P. 206 (2003) 467
Chaumont, J., see Vincent, L. 207 (2003) 339
Chayahara, A., see Fukumi, K. 206 (2003) 353
Chayahara, A., see Heck, C. 206 (2003) 601
Chayahara, A., see Tojo, H. 206 (2003) 717
Chayahara, A., see Lee, Y.-Y. 206 (2003) 754
Chayahara, A., see Kinomura, A. 210 (2003) 75
Chefonov, O.V., see Aleinik, A.N. 201 (2003) 34
Chefonov, O.V., see Aleinik, A.N. 201 (2003) 191
Chehab, R., see Artru, X. 201 (2003) 243
Chen, A., see Engel, S. 204 (2003) 416
Chen, A.A. and The DRAGON Collaboration, Results from the development of ionization detection systems for the DRAGON facility 204 (2003) 614
Chen, G., see Wang, S. 201 (2003) 475
Chen, G., see Rangan, S. 206 (2003) 417
Chen, H., see Beiersdorfer, P. 205 (2003) 173
Chen, H., see Shao, L. 206 (2003) 413
Chen, J.Y., see Yang, P. 206 (2003) 721
Chen, L., see Bernard, J. 205 (2003) 196
Chen, L., see Brédy, R. 205 (2003) 651
Chen, L., see Martin, S. 209 (2003) 265
Chen, M.-K., Doubly excited $^3P^e$ resonances in heliumlike ions below $N = 3$ threshold 205 (2003) 78
Chen, X.W., see Peng, D.Q. 201 (2003) 589
Chen, X.X., see Wang, Z.G. 209 (2003) 200
Chen, Y., see Alves, E. 206 (2003) 148
Chen, Z.Q., see Abe, H. 206 (2003) 224
Chen, Z.Y., A. Bogaerts, D. Depla and V. Ignatova, Dynamic Monte Carlo simulation for reactive sputtering of aluminium 207 (2003) 415
Cheng, S., see Cleland, M.R. 208 (2003) 66
Cheng, X.Q., R.S. Wang, X.J. Tang and B.X. Liu, Formation of $MoSi_2$ and associated fractal growth on Si surface upon high current pulsed Mo-ion implantation 207 (2003) 301
Chesnel, J.-Y., see Laurent, G. 205 (2003) 546
Chesnokov, Yu.A., see Vodopianov, A.S. 201 (2003) 266
Chesnokov, Yu.A., see Bellucci, S. 202 (2003) 236
Cheung, W.Y., see Gao, Y. 206 (2003) 317
Chevallier, M., see Artru, X. 201 (2003) 243
Chevallier, M., see Dauvergne, D. 205 (2003) 773
Chiang, S.L., see Liang, J.H. 206 (2003) 932
Chiba, A., see Kitazawa, S.-i. 206 (2003) 952
Chichkine, V., see Geissel, H. 204 (2003) 71
Chichkine, V., see Scheidenberger, C. 204 (2003) 119
Chichkine, V., see Winkler, M. 204 (2003) 454
Chimi, Y., see Ono, F. 206 (2003) 295
Chimi, Y., A. Iwase and T. Iwata, Defect production and radiation annealing in platinum irradiated with high-energy heavy ions 209 (2003) 159
Chimi, Y., see Iwase, A. 209 (2003) 323
Chipara, M., R. Benson, M.D. Chipara and J.R. Reyes, ESR investigations on irradiated polystyrene 208 (2003) 390
Chipara, M.D., see Chipara, M. 208 (2003) 390
Chirinos, H., F. Yoshii, K. Makuuchi and A. Lugao, Radiation vulcanization of natural rubber latex using 250 keV electron beam machine 208 (2003) 256
Chishkine, V., see Tahir, N.A. 204 (2003) 282
Chmielewska, D., see Rzadkiewicz, J. 205 (2003) 128
Chmielewska, D., see Czarnota, M. 205 (2003) 133
Chochula, P., see Vodopianov, A.S. 201 (2003) 266
Choi, W.K., see Jeon, G.Y. 206 (2003) 409

Choi, Y., S. Yamamoto, H. Saitoh, T. Sumita and H. Itoh, Influence of carbon-ion irradiation and hydrogen-plasma treatment on photocatalytic properties of titanium dioxide films ... 206 (2003) 241
Choi, Y., see Hanley, L. ... 203 (2003) 116
Chojnacki, S., see Majewska, U. ... 205 (2003) 799
Cholewa, M., see Fischer, B.E. ... 210 (2003) 285
Cholewa, M., B.E. Fischer and M. Heiß, Preparatory experiments for a single ion hit facility at GSI ... 210 (2003) 296
Choo, T.F., see Watt, F. ... 210 (2003) 14
Chouffani, K., I. Endo and H. Überall, Axial coherent bremsstrahlung of type A in a diamond crystal ... 201 (2003) 16
Chow, K.H., see Kiefl, R.F. ... 204 (2003) 682
Christopher, D., see Mulliah, D. ... 202 (2003) 294
Chrusciel, J., see Nablo, S.V. ... 208 (2003) 90
Chu, P.K., see Zhang, Q.Y. ... 206 (2003) 357
Chu, P.K., see Tian, X.B. ... 206 (2003) 673
Chu, P.K., see Li, L.H. ... 206 (2003) 691
Chu, P.K., see Yang, P. ... 206 (2003) 721
Chu, P.K., see Tang, D.L. ... 206 (2003) 808
Chu, W.-K., see Shao, L. ... 206 (2003) 413
Chubarian, G., see Souliotis, G.A. ... 204 (2003) 166
Chulkov, L., see Geissel, H. ... 204 (2003) 71
Chung, K.T., see Bruch, R. ... 205 (2003) 488
Chung, Y.-S., see Smith, A.C.H. ... 205 (2003) 421
Ciavola, G., S. Gammino, L. Celona, L. Andò, M. Maggiore, P. Spadtke, M. Winkler and H. Wollnik, Beamline design for the transport of high intensity beams ... 204 (2003) 410
Ciavola, G., see Gammino, S. ... 205 (2003) 162
Ciavola, G., see Gammino, S. ... 209 (2003) 345
Ciljak, M., see Vodopianov, A.S. ... 201 (2003) 266
Ciortea, C., I. Piticu, D.E. Dumitriu, D. Fluerașu, A. Enulescu, S.Z. Szilagyi, S.E. Enescu, M.M. Gugiu and T.A. Dumitrescu, Inner-shell vacancy production and multiple ionization effects in 0.1–1.75 MeV/u Mn, Fe, Co, Ni, Cu + Au, Bi collisions ... 205 (2003) 789
Cisneros, C., see Schippers, S. ... 205 (2003) 297
Cisneros, C., see Müller, A. ... 205 (2003) 301
Cizeron, R., see Artru, X. ... 201 (2003) 243
Clapier, F., see Mirea, M. ... 201 (2003) 433
Clapier, F., see Lau, C. ... 204 (2003) 246
Clapier, F., see Essabaa, S. ... 204 (2003) 780
Clark, J., R.C. Barber, C. Boudreau, F. Buchinger, J.E. Crawford, S. Gulick, J.C. Hardy, A. Heinz, J.K.P. Lee, R.B. Moore, G. Savard, D. Seweryniak, K.S. Sharma, G. Sprouse, J. Vaz, J.C. Wang and Z. Zhou, Improvements in the injection system of the Canadian Penning trap mass spectrometer ... 204 (2003) 487
Clark, J., see Savard, G. ... 204 (2003) 582
Clark, R.G., see Yang, C. ... 210 (2003) 186
Cleghorn, D.A., see Nablo, S.V. ... 208 (2003) 90
Cleland, M.R., L.A. Parks and S. Cheng, Applications for radiation processing of materials ... 208 (2003) 66
Cleland, M.R. and L.A. Parks, Medium and high-energy electron beam radiation processing equipment for commercial applications ... 208 (2003) 74
Clough, R.L., Review of the 5th IRaP Conference ... 208 (2003) 1
Coacolo, L., see Essabaa, S. ... 204 (2003) 780
Cochrane, C., see Laude, L.D. ... 208 (2003) 314
Cocke, C.L., see Reiser, I. ... 205 (2003) 614
Cogneau, M., see Gaelens, M. ... 204 (2003) 48
Cohen, C., see Dauvergne, D. ... 205 (2003) 773
Cohen, C., see Bräuning, H. ... 205 (2003) 826
Cohen, D.D., see Cornelius, I.M. ... 210 (2003) 191
Cohen, D.D., see Orlic, I. ... 210 (2003) 330
Coindeau, S., see Jagielski, J. ... 206 (2003) 1097
Cole, J.D., see Batchelder, J.C. ... 204 (2003) 625
Colella, M., see Tesfamichael, T. ... 201 (2003) 581
Collaborative Research Centre for Cluster Ion Beam Process Technology, see Yamada, I. ... 206 (2003) 820

Collart, E., see Gennaro, S. 209 (2003) 136
Comley, A.J., see Tisch, J.W.G. 205 (2003) 310
Compant la Fontaine, A., see Bizau, J.M. 205 (2003) 290
Cooper, J.M., see García-Blanco, S. 206 (2003) 440
Coqueret, X., see Lopitaux, G. 208 (2003) 500
Cormier, D., see Hitz, D. 205 (2003) 168
Cormier, D., see Manil, B. 205 (2003) 666
Cornelius, I.M., I. Orlic, R. Siegele, A.B. Rosenfeld and D.D. Cohen, Ion beam induced charge collection time imaging of a silicon microdosimeter 210 (2003) 191
Cornell, J., see Jardin, P. 204 (2003) 377
Corrales, L.R., see Gao, F. 202 (2003) 1
Correia, J.G., see Köster, U. 204 (2003) 303
Correia, J.G., see Bharuth-Ram, K. 206 (2003) 941
Correia, J.G., see Alves, E. 206 (2003) 1047
Correia, M.R., see Alves, E. 206 (2003) 1042
Cortina-Gil, D., see Geissel, H. 204 (2003) 71
Cosentino, L., P. Finocchiaro, A. Pappalardo, A. Hermanne, H. Thienpont, M. Vervaeke, B. Volckaerts and P. Vynck, Ion micro-beam diagnostics with photodetectors 209 (2003) 340
Costa, A.M., see Santos, J.P. 205 (2003) 102
Costa, L., see Baccaro, S. 208 (2003) 195
Costantini, J.M., see Trocellier, P. 206 (2003) 1077
Costantini, J.M., see Trocellier, P. 210 (2003) 507
Cottereau, E., see Lau, C. 204 (2003) 246
Couillaud, C., see Bizau, J.M. 205 (2003) 290
Courtois, B., see Incerti, S. 210 (2003) 92
Covington, A.M., see Schippers, S. 205 (2003) 297
Crawford, J.E., see Clark, J. 204 (2003) 487
Crawford, J.E., see Savard, G. 204 (2003) 582
Cremer, G., see Buchet-Poulizac, M.C. 205 (2003) 106
Crepieux, B., see Köster, U. 204 (2003) 303
Crespo López-Urrutia, J.R., see Beiersdorfer, P. 205 (2003) 62
Crespo López-Urrutia, J.R., see Mironov, V. 205 (2003) 183
Cubaynes, D., see Bizau, J.M. 205 (2003) 290
Cui, B., J. Qin, L. Li, R. Wang and Y. Bao, An ISOL test-bench at China Institute of Atomic Energy 204 (2003) 58
Cui, B., see Liu, W. 204 (2003) 62
Cui, F.-Z., see Lee, I.-S. 206 (2003) 522
Cui, X.M., see Li, L.H. 206 (2003) 691
Cunsolo, A., see Shchepunov, V.A. 204 (2003) 447
Currell, F.J., J. Aiken, K.F. Dunn, X. Lu, R.W. McCullough, E.J. Sokell, B.E. O'Rourke, V. Krastev and H. Watanabe, A new device for the study of electron–ion interactions 205 (2003) 230
Currell, F.J., see Lu, X. 205 (2003) 234
Currell, F.J., see Watanabe, H. 205 (2003) 239
Currell, F.J., see O'Rourke, B.E. 205 (2003) 378
Currell, F.J., see Watanabe, H. 205 (2003) 417
Cyvogt, G., see Lettry, J. 204 (2003) 251
Czarnota, M., M. Pajek, D. Banaś, D. Chmielewska, J. Rzadkiewicz, Z. Sujkowski, J.-C. Dousse, M. Berset, O. Mauron, Y.-P. Maillard, P.A. Raboud, J. Hoszowska, M. Polasik and K. Słabkowska, Observation of L-X-ray satellites and hypersatellites in collisions of O and Ne ions with Mo and Pd 205 (2003) 133
Czarnota, M., see Banaś, D. 205 (2003) 139
Czerbniak, J., see Moneta, M. 205 (2003) 808
Czerbniak, J., see Moneta, M. 209 (2003) 246
Czerski, K., see Schiwietz, G. 209 (2003) 26
Czvikovszky, T., see Zsigmond, B. 208 (2003) 247

da Silva, M.R., see Alves, L.C. 210 (2003) 495
da Silva, R.C., see Alves, E. 206 (2003) 148
da Silva, R.C., see Alves, E. 207 (2003) 55

da Silveira, E.F., see Neugebauer, R. ... 209 (2003) 62
Dael, A., see Geissel, H. ... 204 (2003) 71
Dahlan, K.Z.M., see Nasef, M.M. ... 201 (2003) 604
Dahmen, U., see Mitsuishi, K. ... 206 (2003) 109
Dal Maschio, M., see Bisello, D. ... 210 (2003) 142
Dallaqua, R.S., see Ueda, M. ... 206 (2003) 760
Danared, H., see Böhm, S. ... 205 (2003) 370
Danhara, T., see Yoshioka, T. ... 207 (2003) 323
Dannefaer, S., see Poirier, R. ... 206 (2003) 85
Danziger, M., see Oganessian, V.R. ... 208 (2003) 166
Daolio, S., see Tolstogouzov, A. ... 203 (2003) 198
Dapor, M., Monte Carlo simulation of the interaction of electrons with supported and unsupported thin films ... 202 (2003) 155
Darowski, N., I. Zizak, G. Schumacher, S. Klaumünzer and E. Wendler, Surface crystallinity and radiation-amorphization of InP – An X-ray grazing incidence study ... 209 (2003) 131
Das, A.K., see Nersisyan, H.B. ... 205 (2003) 281
Date, H., Y. Ishimaru and M. Shimozuma, Electron collision processes in gaseous xenon ... 207 (2003) 373
Datz, S., see Azuma, T. ... 205 (2003) 779
Datzmann, G., see Dollinger, G. ... 210 (2003) 6
Datzmann, G., see Reichart, P. ... 210 (2003) 135
Daudin, L., H. Khodja and J.-P. Gallien, Development of "position–charge–time" tagged spectrometry for ion beam microanalysis ... 210 (2003) 153
Daudin, L., see Bureau, H. ... 210 (2003) 434
Daudin, L., see Orberger, B. ... 210 (2003) 441
D'Auria, J., see Wrede, C. ... 204 (2003) 619
D'Auria, J.M., see Ressler, J.J. ... 204 (2003) 141
D'Auria, J.M., see Engel, S. ... 204 (2003) 416
D'Auria, J.M., see Lapi, S. ... 204 (2003) 444
Dauvergne, D., see Artru, X. ... 201 (2003) 243
Dauvergne, D., A. Bräuning-Demian, F. Bosch, H. Bräuning, M. Chevallier, C. Cohen, A. Gumberidze, A. L'Hoir, R. Kirsch, C. Kozhuharov, D. Liesen, P.H. Mokler, J.C. Poizat, C. Ray, Th. Stöhlker, M. Tarisien, E. Testa, S. Toleikis and M. Toulemonde, Impact parameter dependent electron capture by decelerated U^{91+} ions at 20 MeV/u using crystal channeling conditions ... 205 (2003) 773
Dauvergne, D., see Bräuning, H. ... 205 (2003) 826
Davenas, J. and P. Thévenard, Models of the hydrogen release from polymers under ion beam irradiation ... 208 (2003) 170
Davenas, J., I. Stevenson, N. Celette, G. Vigier and L. David, Influence of the molecular modifications on the properties of EPDM elastomers under irradiation ... 208 (2003) 461
David, L., see Davenas, J. ... 208 (2003) 461
Davids, C.N., Recoil separators ... 204 (2003) 124
Daviel, S., see Kiefl, R.F. ... 204 (2003) 682
Davila, L., see Felter, T.E. ... 207 (2003) 72
Dávila-Rangel, I., see Badillo-Almaraz, V. ... 210 (2003) 424
Davinson, T., see Kester, O. ... 204 (2003) 20
Dax, A., see Nörtershäuser, W. ... 204 (2003) 644
Debray, M.E., see Ozafrán, M.J. ... 201 (2003) 317
De Coste, V., see Fattibene, P. ... 201 (2003) 480
DeFazio, J.N., T.M. Stephen and B.L. Peko, Charge state effects in atom-surface scattering ... 201 (2003) 453
De Filippo, E., see Lanzanò, G. ... 205 (2003) 841
De Filippo, E., see Lanzanò, G. ... 209 (2003) 212
Defrance, P., T.M. Kereselidze and Z.S. Machavariani, Double ionization of helium by electrons: Role of angular correlation between the target electrons ... 205 (2003) 405
Defrance, P., see Beigman, I. ... 205 (2003) 427
Defranceschi, M., see Romano, A. ... 202 (2003) 100
Degenaar, H. and M. Blaauw, The neutron energy distribution to use in Monte Carlo modeling of neutron capture in thermal neutron beams ... 207 (2003) 131
Degi, K., see Yamaguchi, H. ... 206 (2003) 561
Degi, K., see Morishita, T. ... 206 (2003) 565

Dehaye, F., E. Balanzat, E. Ferain and R. Legras, Chemical modifications induced in bisphenol: A polycarbonate by swift heavy ions ... 209 (2003) 103
De La Rue, R.M., see García-Blanco, S. ... 206 (2003) 440
Delauré, B., see Beck, M. ... 204 (2003) 521
Delcorte, A., see Krantzman, K.D. ... 202 (2003) 201
Déléris, G., see Betz, N. ... 208 (2003) 434
Della-Negra, S., see Girard, J.C. ... 209 (2003) 85
Della Picca, R. and R.O. Barrachina, Final-state interaction description of the autoionization of atoms by ion impact in the velocity matching regime ... 205 (2003) 539
de M. Azevedo, G., C.J. Glover, K.M. Yu, G.J. Foran and M.C. Ridgway, Direct observation of structural relaxation in amorphous compound semiconductors ... 206 (2003) 1024
Demenkov, P.V., see Plaksin, O.A. ... 206 (2003) 1083
Demeter, M., see Anagnostopoulos, D.F. ... 205 (2003) 9
Demin, A.M., see Rodin, A.M. ... 204 (2003) 114
Demortier, G. and G. Mathot, Contribution of secondary fluorescence in the lateral resolution of a PIXE microprobe ... 210 (2003) 169
Demouchy, S., see Bureau, H. ... 210 (2003) 449
Dendooven, P., see Berg, G.P. ... 204 (2003) 532
Dendooven, P., see Huang, W.X. ... 204 (2003) 592
Denifl, S., see Gstir, B. ... 205 (2003) 413
Denis, C., see Raoux, A.-C. ... 207 (2003) 186
Deniz, V., see Şen, M. ... 208 (2003) 480
Dennler, G., A. Houdayer, P. Raynaud, I. Séguy, Y. Ségui and M.R. Wertheimer, Investigations of SiO_x-polymer "interphases" by glancing angle RBS with Li^+ and Be^+ ions ... 208 (2003) 176
DePaola, B.D., see Brédy, R. ... 205 (2003) 191
Depla, D., see Chen, Z.Y. ... 207 (2003) 415
Derkatch, A.M., see Smith, A.C.H. ... 205 (2003) 421
Derlet, P.M., see Samaras, M. ... 202 (2003) 51
Dermois, O., see Berg, G.P. ... 204 (2003) 532
Derosa, P.A., see Mainardi, R.T. ... 201 (2003) 525
De Salvador, D., E. Napolitani, S. Mirabella, F. Giannazzo, V. Raineri, G. Bisognin, M. Berti, A. Carnera, A.V. Drigo, A. Terrasi and F. Priolo, New insight on the interaction and diffusion properties of ion beam injected self-interstitials in crystalline silicon ... 206 (2003) 922
Deschanels, X., see Trocellier, P. ... 206 (2003) 1077
Deschanels, X., see Trocellier, P. ... 210 (2003) 507
Deutsch, J., see Beck, M. ... 204 (2003) 521
Dev, B.N., see Kamila, J. ... 207 (2003) 291
Devès, G., see Ortega, R. ... 210 (2003) 325
Devès, G., see Sergeant, C. ... 210 (2003) 349
Devès, G., see Ortega, R. ... 210 (2003) 364
Devès, G., see Ortega, R. ... 210 (2003) 455
De Vries, B., see Alves, E. ... 206 (2003) 1042
De Witte, H., see Köster, U. ... 204 (2003) 347
Deycard, S., see Baldacchino, G. ... 209 (2003) 219
Dhanasekaran, R., see Senthil Kumar, M. ... 207 (2003) 308
Dhar, S., P. Schaaf, K.P. Lieb, N. Bibić, M. Milosavljević, T. Sajavaara, J. Keinonen and A. Traverse, Ion beam mixing in Fe/Si and Ta/Si bilayers: Possible effects of ion charges ... 205 (2003) 741
Dias da Cunha, K., R.D. Rickman and C.V. Barros Leite, Characterization of environmental exposure to mineral sands by PDMS technique ... 201 (2003) 615
Diaz de la Rubia, T., see Morishita, K. ... 202 (2003) 76
Diaz de la Rubia, T.D., see Kubota, A. ... 202 (2003) 88
Diaz-Herrera, B., see Mayer, M. ... 207 (2003) 263
Dicara, Cl., see Laude, L.D. ... 208 (2003) 314
Diehl, A., see Bräuning, H. ... 205 (2003) 555
Dietrich, M., see Köster, U. ... 204 (2003) 303
Dietrich, M., see Köster, U. ... 204 (2003) 347
Dietrich, M., see Weyer, G. ... 206 (2003) 90

Diez Muiño, R., see Cernusca, S. . . . 203 (2003) 1
Diez Muiño, R., Role of target polarization in the electron capture by ions in metals . . . 203 (2003) 8
Diez Muiño, R., see Alducin, M. . . . 203 (2003) 83
Diget, C.Aa., see Bergmann, U.C. . . . 204 (2003) 220
Dilling, J., see Sikler, G. . . . 204 (2003) 482
Dilling, J., P. Bricault, M. Smith, H.-J. Kluge and TITAN collaboration, The proposed TITAN facility at ISAC for very precise mass measurements on highly charged short-lived isotopes . . . 204 (2003) 492
Dimova, T., see Artru, X. . . . 201 (2003) 243
Ding, B., see Zhang, X. . . . 201 (2003) 551
Ding, F.-R., see He, W.-H. . . . 201 (2003) 449
Ditmire, T., see Tisch, J.W.G. . . . 205 (2003) 310
Ditrói, F., see Tárkányi, F. . . . 207 (2003) 381
Diwan, P.K., S. Kumar, V. Sharma, S.K. Sharma, V.K. Mittal, B. Sannakki, R.D. Mathad, K. Uday Kumar, S.A. Khan and D.K. Avasthi, Slowing down of MeV heavy ions with $Z = 6$–29 in PEN ($C_7H_5O_2$) . . . 201 (2003) 389
Dizard, Z.L., see Kasukabe, Y. . . . 206 (2003) 390
Djamanbalin, K.K., see Gerasimenko, N.N. . . . 206 (2003) 299
Djamanbalin, K.K., see Gerasimenko, N.N. . . . 206 (2003) 644
Djekic, S., see Werth, G. . . . 205 (2003) 1
Djekic, S., see Beier, T. . . . 205 (2003) 15
Djurabekova, F.G., B.E. Umirzakov, F.F. Umarov and Y. Miyagawa, Effect of high-dose low-energy reactive-ion implantation on cold cathode properties . . . 206 (2003) 194
Djurić, N., see Böhm, S. . . . 205 (2003) 370
Djurić, N., see Smith, A.C.H. . . . 205 (2003) 421
Dmitriev, S.N., see Reutov, V.F. . . . 201 (2003) 460
Dmitriev, S.N., see Oganessian, Yu.Ts. . . . 204 (2003) 606
Dmitriev, S.N., see Kaschieva, S. . . . 206 (2003) 452
Dmitriev, S.N., see Akapiev, G.N. . . . 208 (2003) 133
Dmitriev, S.N., see Apel, P.Yu. . . . 209 (2003) 329
Doak, D., see Marchal, J. . . . 206 (2003) 462
Doan, N.V., J.L. Bocquet and G. Martin, Sinks strengths revisited . . . 202 (2003) 8
Dobaczewski, J., see Nazarewicz, W. . . . 204 (2003) 1
Dobos, E., see Sziki, G.Á. . . . 210 (2003) 478
Dobrev, D., see Siwy, Z. . . . 208 (2003) 143
Dobrovolsky, S.N. and N.F. Shul'ga, Transversal spatial distribution of transition radiation by relativistic electron in the formation zone by the dotted detector . . . 201 (2003) 123
Dodd, P.E., see Doyle, B.L. . . . 210 (2003) 98
Dodd, P.E., see Vizkelethy, G. . . . 210 (2003) 211
Dogra, A., M. Singh and R. Kumar, 50 MeV Li^{3+} ion irradiation induced modifications in dielectric properties of Al^{3+} substituted Mg–Mn ferrite . . . 207 (2003) 296
Dolgikh, V.A., Yu.P. Kunashenko and Yu.L. Pivovarov, Energy spectrum of low energy positrons generated by radiation from relativistic electrons channeled in a crystal . . . 201 (2003) 253
Dollinger, G., see Schubert, M. . . . 209 (2003) 224
Dollinger, G., G. Datzmann, A. Hauptner, R. Hertenberger, H.-J. Körner, P. Reichart and B. Volckaerts, The Munich ion microprobe: Characteristics and prospect . . . 210 (2003) 6
Dollinger, G., see Reichart, P. . . . 210 (2003) 135
Domain, C., see Becquart, C.S. . . . 202 (2003) 44
Domain, C., see Khrushcheva, O. . . . 202 (2003) 68
Dombsky, M., P. Bricault, P. Schmor and M. Lane, ISAC target operation with high proton currents . . . 204 (2003) 191
Dombsky, M., see Bricault, P. . . . 204 (2003) 319
Dombsky, M., see Melconian, D. . . . 204 (2003) 540
Domingo, M., see Baratta, G.A. . . . 209 (2003) 283
Domínguez-Solís, J.R., see Ager, F.J. . . . 210 (2003) 401
Dong, C.Z., L.Y. Xie, S. Fritzsche and T. Kato, A theoretical study of the 3d–2p resonance to intercombination line-intensity ratio in mid-Z Ne-like ions . . . 205 (2003) 87
Dong, C.Z., see Fritzsche, S. . . . 205 (2003) 93
Donnelly, S.E., see Nordlund, K. . . . 206 (2003) 189

Donnelly, S.E., V.M. Vishnyakov, G. Carter, J. Terry, L.I. Haworth, P. Sermanni and R.C. Birtcher, The use of cavities for gettering in silicon microelectronic devices ... 206 (2003) 422
Donskoi, E., see Shirkov, G. ... 205 (2003) 215
Donzaud, C., see Lau, C. ... 204 (2003) 246
Donzaud, C., see Lau, C. ... 204 (2003) 257
Donzaud, C., see Essabaa, S. ... 204 (2003) 780
Dorchies, F., see Blasco, F. ... 205 (2003) 324
Dorchies, F., see Caillaud, T. ... 205 (2003) 329
Döring, J., see Roeckl, E. ... 204 (2003) 53
D'Orléans, C., C. Cerruti, C. Estournès, J.J. Grob, J.L. Guille, F. Haas, D. Muller, M. Richard-Plouet and J.P. Stoquert, Irradiations of implanted cobalt nanoparticles in silica layers ... 209 (2003) 316
Dörschel, B., D. Hermsdorf, S. Pieck, S. Starke, H. Thiele and F. Weickert, Studies of SSNTDs made from LR-115 in view of their applicability in radiobiological experiments with alpha particles ... 207 (2003) 154
Dörschel, B., see Oganessian, V.R. ... 208 (2003) 166
Dorschner, H., see Hazdra, P. ... 201 (2003) 513
Doupé, J.P., see Litherland, A.E. ... 204 (2003) 720
Dousse, J.-Cl., see Rzadkiewicz, J. ... 205 (2003) 128
Dousse, J.-Cl., see Czarnota, M. ... 205 (2003) 133
Dowling, A., see Bricault, P. ... 204 (2003) 319
Doyama, M., Y. Kogure, T. Nozaki and Y. Kato, Plastic deformation of copper single crystals by simulation using X-ray Lang method and molecular dynamics ... 202 (2003) 64
Doyle, B.L., see Rossi, P. ... 210 (2003) 85
Doyle, B.L., F.D. McDaniel, G. Vizkelethy, P.E. Dodd, P. Rossi and D.S. Walsh, Logic upsets in SRAMs using ion electron emission microscopy ... 210 (2003) 98
Doyle, B.L., see Rossi, P. ... 210 (2003) 123
Doyle, B.L., see Vizkelethy, G. ... 210 (2003) 211
Doyle, J.P., P. Chaudhari, J.L. Lacey, E.A. Galligan, S.C. Lien, A.C. Callegari, N.D. Lang, M. Lu, Y. Nakagawa, H. Nakano, N. Okazaki, S. Odahara, Y. Katoh, Y. Saitoh, K. Sakaib, H. Satoh and Y. Shiota, Ion beam alignment for liquid crystal display fabrication ... 206 (2003) 467
Doyle, J.R., see Kuwata, K.T. ... 201 (2003) 566
Doyle, Y., see Shalaby, S.W. ... 208 (2003) 110
DRAGON Collaboration, see Engel, S. ... 204 (2003) 154
Drake, D.M., see Talbert, W.L. ... 204 (2003) 314
Drake, G.W.F., see Müller, P. ... 204 (2003) 536
Draxler, M., R. Beikler, E. Taglauer, K. Schmid, R. Gruber, S.N. Ermolov and P. Bauer, Explanation of the surface peak in charge integrated LEIS spectra ... 203 (2003) 218
Drigo, A.V., see De Salvador, D. ... 206 (2003) 922
Drobert, T., see Jardin, P. ... 204 (2003) 377
Drozdetsky, A., see Artru, X. ... 201 (2003) 243
Drumm, P.V., see Bennett, J.R.J. ... 204 (2003) 215
Druzhinin, V., see Artru, X. ... 201 (2003) 243
Du, X., see Müller, P. ... 204 (2003) 536
Du, Y., see Wang, S. ... 201 (2003) 475
Dubrovin, M., see Artru, X. ... 201 (2003) 243
Dubus, A., see Pauly, N. ... 203 (2003) 36
Dubus, A., N. Pauly and M. Rösler, Electron emission from below the surface induced by highly charged ions: Effect of depth distribution of electron excitation and ion transport on the emission properties ... 205 (2003) 730
Ducourtieux, M., see Lau, C. ... 204 (2003) 246
Ducourtieux, M., see Lau, C. ... 204 (2003) 257
Ducourtieux, M., see Essabaa, S. ... 204 (2003) 780
Ducret, J.-E., see Geissel, H. ... 204 (2003) 71
Dufour, C., see Wang, Z.G. ... 209 (2003) 194
Duft, D., see Manil, B. ... 205 (2003) 684
Dumitrescu, T.A., see Ciortea, C. ... 205 (2003) 789
Dumitriu, D.E., see Ciortea, C. ... 205 (2003) 789
Dumont, E., see Kiefl, R.F. ... 204 (2003) 682

Dunham, H.R., see Dunning, F.B. 203 (2003) 69
Dunn, G.H., see Schippers, S. 205 (2003) 297
Dunn, G.H., see Böhm, S. 205 (2003) 370
Dunn, G.H., see Smith, A.C.H. 205 (2003) 421
Dunn, K.F., see Currell, F.J. 205 (2003) 230
Dunning, F.B., H.R. Dunham, C. Oubre and P. Nordlander, Behavior of Rydberg atoms at surfaces: energy level shifts and ionization 203 (2003) 69
Dunsiger, S.R., see Kiefl, R.F. 204 (2003) 682
Dupas-Bruzek, C., see Laude, L.D. 208 (2003) 314
Dupuis, M., see Jardin, P. 204 (2003) 377
Dutta, R.K., see Michelet-Habchi, C. 210 (2003) 354
Dytlewski, N., see Johnson, P.B. 206 (2003) 1056
Dzurak, A.S., see Hearne, S.M. 210 (2003) 181
Dzurak, A.S., see Yang, C. 210 (2003) 186

Eberth, J., see Kester, O. 204 (2003) 20
Ebisu, S., see Yamamoto, H. 210 (2003) 388
Echigo, T., see Kitahara, N. 206 (2003) 999
Eckstein, W., see Liang, J.H. 202 (2003) 195
Efimov, A.E., see Skuratov, V.A. 203 (2003) 136
Efremov, A., V. Bekhterev, S. Bogomolov, G. Gulbekyan, A.N. Lebedev, V.N. Loginov, Yu.I. Smirnov and M. Leporis, The 2.45 GHz ECR ion source for the first stage of the DRIBs project 204 (2003) 368
Efremov, A.A., see Oganessian, Yu.Ts. 204 (2003) 606
Egger, J.P., see Anagnostopoulos, D.F. 205 (2003) 9
Eguchi, H., see Sadoh, T. 206 (2003) 478
Ehrich, M., see Kaneyasu, T. 205 (2003) 624
Eichhorn, F., see Kögler, R. 206 (2003) 989
Eichhorn, F., see Grambole, D. 210 (2003) 526
Eklöw, N., see Böhm, S. 205 (2003) 370
Elbakian, S.S., E.D. Gazazian, K.A. Ispirian and A.D. Ter-Pogossyan, Radiowave transition radiation at distances less or of the order of the formation zone 201 (2003) 44
Elder, K., see Köster, U. 204 (2003) 303
El Haj, A.J., see Yang, Y. 207 (2003) 165
Eliseev, S., see Scheidenberger, C. 204 (2003) 119
Eliseev, S., see Winkler, M. 204 (2003) 454
Elisseev, S.A., see Sikler, G. 204 (2003) 482
Elliman, R.G., M.J. Lederer, N. Smith and B. Luther-Davies, The fabrication and properties of silicon-nanocrystal-based devices and structures produced by ion implantation – The search for gain 206 (2003) 427
El-Naggar, A.M., M.H. Zohdy, S.S. Mohammed and E.A. Alam, Water resistance and surface morphology of synthetic fabrics covered by polysiloxane/acrylate followed by electron beam irradiation 201 (2003) 595
Elsholz, F., M. Meixner and E. Schöll, Kinetic Monte Carlo simulation of self-organized pattern formation in thin film deposition 202 (2003) 249
El Tahhann, R., see Berger, P. 210 (2003) 519
Emfietzoglou, D. and M. Moscovitch, Secondary electron spectra for fast proton impact on gaseous and liquid water 209 (2003) 239
Emhofer, S., see Kester, O. 204 (2003) 20
Emhofer, S., see Habs, D. 204 (2003) 739
Emling, H., see Geissel, H. 204 (2003) 71
Enders, B., see Lee, Y.-Y. 206 (2003) 754
Endo, A., N. Nakamura, Y. Kanai, Y. Nakai, K.-i. Komaki and Y. Yamazaki, A compact electron beam ion source equipped with a bulk high-T_c superconductor solenoid 205 (2003) 187
Endo, H., see Sakudo, N. 206 (2003) 687
Endo, I., see Chouffani, K. 201 (2003) 16
Enescu, S.E., see Ciortea, C. 205 (2003) 789
Engel, S. and DRAGON Collaboration, Commissioning and operation of DRAGON 204 (2003) 154

Engel, S., L. Buchmann, A. Chen, J.M. D'Auria, D.A. Hutcheon, C.S. Galovich, D. Gigliotti, U. Greife, D. Hunter, A. Hussein, C.C. Jewett, W. Liu, A. Olin, D. Ottewell and J. Rogers, Testing the ISAC radioactive ion accelerator beam specifications using the $H(^{15}N,\alpha\gamma)^{12}C$ reaction 204 (2003) 416
Enomoto, A., see Okuno, H. 201 (2003) 259
Enomoto, K., see Jeong, S.C. 204 (2003) 420
Enomoto, Y. and M. Sawa, Simulation study on nanocluster growth by ion beam synthesis 206 (2003) 596
Enqvist, T., P. Heikkinen, H. Kettunen, P. Kuusiniemi, M. Leino, A.-P. Leppänen, C. Scholey and J. Uusitalo, The design of a new gas-filled separator at JYFL 204 (2003) 138
Enqvist, T., see Uusitalo, J. 204 (2003) 638
Enrique, R.A., K. Nordlund, R.S. Averback and P. Bellon, Nonequilibrium self-organization in alloys under irradiation leading to the formation of nanocomposites 202 (2003) 206
Enriquez, L., see Hernández-Mangas, J.M. 202 (2003) 138
Ensinger, W., O. Lensch, F. Sittner, J. Knecht, K. Volz, T. Matsutani and M. Kiuchi, Argon versus nitrogen ion beam assisted deposition of amorphous carbon and carbon–nitrogen films on aluminum for protection against aqueous corrosion 206 (2003) 334
Ensinger, W., see Lee, Y.-Y. 206 (2003) 754
Enulescu, A., see Ciortea, C. 205 (2003) 789
Erdoğan, S.M., see Şen, M. 208 (2003) 480
Erfurt, G., M.R. Krbetschek, V.J. Bortolot and F. Preusser, A fully automated multi-spectral radioluminescence reading system for geochronometry and dosimetry 207 (2003) 487
Erichsen, J., see Zaporojtchenko, V. 208 (2003) 155
Erickson, R.I., see Kuwata, K.T. 201 (2003) 566
Eriksson, J., see Milanez Silva, C. 206 (2003) 486
Erler, B., see Akapiev, G.N. 208 (2003) 133
Ermolov, S.N., see Draxler, M. 203 (2003) 218
Eronen, T., see Kolhinen, V.S. 204 (2003) 502
Eryu, O., see Abe, K. 206 (2003) 960
Eryu, O., K. Abe, K. Nakashima and H. Harima, Kinetics of solid phase regrowth of self-ion-implanted amorphous SiC during low temperature furnace annealing 206 (2003) 969
Eskola, K., see Uusitalo, J. 204 (2003) 638
Espiau de la Maestre, R., see Canut, B. 209 (2003) 335
Esquinazi, P., see Spemann, D. 210 (2003) 531
Essabaa, S., see Mirea, M. 201 (2003) 433
Essabaa, S., see Gibouin, S. 204 (2003) 240
Essabaa, S., see Lau, C. 204 (2003) 246
Essabaa, S., see Lau, C. 204 (2003) 257
Essabaa, S., J. Arianer, P. Ausset, J. Sauvage, O. Sorlin, A. Tkatchenko, D. Verney, B. Waast, L. Rinolfi, G. Rossat, D. Forkel-Wirth, A. Muller, G. Bienvenu, J.-C. Bourdon, T. Garvey, B. Jacquemard, M. Omeich, O. Bajeat, J.P. Baronick, F. Clapier, L. Coacolo, C. Donzaud, M. Ducourtieux, S. Galès, D. Gardès, D. Grialou, F. Hosni, D. Guillemaud-Mueller, F. Ibrahim, T. Junquera, C. Lau, F. Le Blanc, H. Lefort, J.C. Le Scornet, J. Lesrel, A.C. Mueller, J. Obert, O. Perru, J.C. Potier, J. Proust, F. Pougheon, B. Roussière and N. Rouvière, Photo-fission for the production of radioactive beams ALTO project 204 (2003) 780
Estournès, C., see D'Orléans, C. 209 (2003) 316
Euphrasie, S., see Wang, Z.G. 209 (2003) 194
Eusebi, R., see Ozafrán, M.J. 201 (2003) 317
Evans, P., see Yu, L.D. 206 (2003) 586
Ewald, G., see Nörtershäuser, W. 204 (2003) 644
Ewing, R.C., see Zhu, S. 206 (2003) 1092
Ewing, R.C., see Meldrum, A. 207 (2003) 28
Eyal, Y., see Abu Saleh, S. 208 (2003) 137
Eyal, Y., see Abu Saleh, S. 209 (2003) 113

Fabich, A., see Lettry, J. 204 (2003) 251
Facina, M., see Kudryavtsev, Yu. 204 (2003) 336
Faestermann, T., see Habs, D. 204 (2003) 739
Fainstein, P.D., see Rivarola, R.D. 205 (2003) 448
Fanciulli, M., see Weyer, G. 206 (2003) 90

Farabolini, W., see Jardin, P. 204 (2003) 377
Fardi, A., see Jensen, J. 205 (2003) 643
Farenzena, L., see Fink, D. 209 (2003) 310
Farizon, B., M. Farizon, M.J. Gaillard, F. Gobet, J.P. Buchet, M. Carré, P. Scheier and T.D. Märk, Collision induced cluster fragmentation: From fragment size distributions to the caloric curve 209 (2003) 9
Farizon, M., see Farizon, B. 209 (2003) 9
Fattibene, P., M. Angelone, M. Pillon and V. De Coste, Tooth enamel dosimetric response to 2.8 MeV neutrons 201 (2003) 480
Faulkner, R.G., see Kishimoto, N. 206 (2003) 634
Faupel, F., see Zaporojtchenko, V. 208 (2003) 155
Fayard, B., see Ortega, R. 210 (2003) 325
Fedorov, D.V., see Andrighetto, A. 204 (2003) 267
Fedorov, D.V., see Köster, U. 204 (2003) 347
Fedorov, D.V., see Fedosseev, V.N. 204 (2003) 353
Fedorov, D.V., see Panteleev, V.N. 204 (2003) 382
Fedorov, V.V. and V.V. Voronin, Neutron diffraction and optics in noncentrosymmetric crystals. New feasibility of a search for neutron EDM 201 (2003) 230
Fedoseyev, V.N., see Peräjärvi, K. 204 (2003) 272
Fedoseyev, V.N., see Köster, U. 204 (2003) 303
Fedoseyev, V.N., see Köster, U. 204 (2003) 343
Fedoseyev, V.N., see Köster, U. 204 (2003) 347
Fedosseev, V., see Lettry, J. 204 (2003) 363
Fedosseev, V., see Giles, T.J. 204 (2003) 497
Fedosseev, V.N., D.V. Fedorov, R. Horn, G. Huber, U. Köster, J. Lassen, V.I. Mishin, M.D. Seliverstov, L. Weissman, K. Wendt and The ISOLDE Collaboration, Atomic spectroscopy studies of short-lived isotopes and nuclear isomer separation with the ISOLDE RILIS 204 (2003) 353
Feketeova, L., see Gstir, B. 205 (2003) 413
Felter, T.E., L. Hrubesh, A. Kubota, L. Davila and M. Caturla, Laser damage probability studies of fused silica modified by MeV ion implantation 207 (2003) 72
Feng, T., Q. Li, J. Xu, X. Wang, X. Liu and S. Zou, Nodose carbon nanotubes and its field emission characteristics 206 (2003) 198
Fenno, R., see Krantzman, K.D. 202 (2003) 201
Ferain, E. and R. Legras, Track-etch templates designed for micro- and nanofabrication 208 (2003) 115
Ferain, E., see Dehaye, F. 209 (2003) 103
Ferguson, S.M., see Abu-Haija, O. 205 (2003) 634
Ferini, G., see Baratta, G.A. 209 (2003) 283
Fernández-Varea, J.M., see Sempau, J. 207 (2003) 107
Fettouhi, A., see Sigmund, P. 209 (2003) 19
Fichtner, P.F.P., see Kling, A. 206 (2003) 653
Fichtner, P.P., see Milanez Silva, C. 206 (2003) 486
Fiegele, T., see Gstir, B. 205 (2003) 413
Fijał, I., see Banaś, D. 205 (2003) 139
Fijał, I., see Majewska, U. 205 (2003) 799
Fil'chagin, S.V., see Rodin, A.M. 204 (2003) 114
Filipe, P., see Pinheiro, T. 210 (2003) 373
Filippov, A., see Shirkov, G. 205 (2003) 215
Fink, D., see Stolterfoht, N. 203 (2003) 246
Fink, D., M. Müller, A. Petrov, L. Farenzena, M. Behar and R.P. Papaleo, Etching kinetics of swift heavy ion irradiated silicone rubber with insoluble additives or reaction products 209 (2003) 310
Finlay, P., see Svensson, C.E. 204 (2003) 660
Finocchiaro, P., see Cosentino, L. 209 (2003) 340
Finstad, T.G., see Marstein, E.S. 207 (2003) 424
Fiol, J. and R.E. Olson, Correlation in fast collisions of highly charged ions with atoms 205 (2003) 474
Fioretto, E., see Lau, C. 204 (2003) 257
Fiorito, R.B., see Shkvarunets, A.G. 201 (2003) 153
Fischer, B.E., M. Heiß and M. Cholewa, About the art to shoot with single ions 210 (2003) 285
Fischer, B.E., see Cholewa, M. 210 (2003) 296

Fitting, J., see Kester, O. . . . 204 (2003) 20
Fléchard, X., see Brédy, R. . . . 205 (2003) 191
Fléchard, X., see Laurent, G. . . . 205 (2003) 546
Flambard, J.-L., see Jardin, P. . . . 204 (2003) 377
Flauta, R., see Wada, M. . . . 206 (2003) 557
Fluerașu, D., see Ciortea, C. . . . 205 (2003) 789
Fogel, M., see Böhm, S. . . . 205 (2003) 370
Földvári, I., see Kling, A. . . . 206 (2003) 653
Folkard, M., B. Vojnovic, S. Gilchrist, K.M. Prise and B.D. Michael, The design and application of ion microbeams for irradiating living cells and tissues . . . 210 (2003) 302
Fomichev, A.S., see Rodin, A.M. . . . 204 (2003) 114
Fomin, V., see Shirkov, G. . . . 205 (2003) 215
Fong, D., see Batchelder, J.C. . . . 204 (2003) 625
Foran, G.J., see de M. Azevedo, G. . . . 206 (2003) 1024
Forest, D.H., see Nieminen, A. . . . 204 (2003) 563
Forkel-Wirth, D., see Essabaa, S. . . . 204 (2003) 780
Forssén, C., see Beiersdorfer, P. . . . 205 (2003) 62
Forstner, O., see Kester, O. . . . 204 (2003) 20
Forstner, O., see Wolf, B.H. . . . 204 (2003) 428
Fortuna, F., see Ruault, M.-O. . . . 206 (2003) 912
Fostner, S., see Melconian, D. . . . 204 (2003) 540
Foti, A., see Shchepunov, V.A. . . . 204 (2003) 447
Fournier, K., see Biedermann, C. . . . 205 (2003) 255
Frahn, M.S., R.D. Abellon, L.H. Luthjens, M.J.W. Vermeulen and J.M. Warman, Radiation-induced polymerization monitored in situ by time-resolved fluorescence of probe molecules in methyl methacrylate . . . 208 (2003) 405
Fraile, L., see Bergmann, U.C. . . . 204 (2003) 220
Fraile, L., see Köster, U. . . . 204 (2003) 303
Fraile, L., see Köster, U. . . . 204 (2003) 347
Franchoo, S., see Kester, O. . . . 204 (2003) 20
Franchoo, S., see Bergmann, U.C. . . . 204 (2003) 220
Franchoo, S., see Köster, U. . . . 204 (2003) 303
Franchoo, S., see Köster, U. . . . 204 (2003) 347
Francis, A.J., see Ohnuki, T. . . . 210 (2003) 378
Franczak, B., see Geissel, H. . . . 204 (2003) 71
Frantz, J., K. Nordlund and J. Keinonen, Burrowing of cobalt nanoclusters in copper . . . 206 (2003) 66
Franzke, B., see Brandau, C. . . . 205 (2003) 66
Frederickson, A.R., C.E. Benson and J.F. Bockman, Measurement of charge storage and leakage in polyimides . . . 208 (2003) 454
Freeman, S.J., see Page, R.D. . . . 204 (2003) 634
Freitas, M.C., see Almeida, S.M. . . . 207 (2003) 434
Frémont, F., see Laurent, G. . . . 205 (2003) 546
Friedrich, M. and H. Tyrroff, A modified ion sputter source with increased lifetime . . . 201 (2003) 645
Friese, J., see Geissel, H. . . . 204 (2003) 71
Fritzsche, S., see Dong, C.Z. . . . 205 (2003) 87
Fritzsche, S., H. Aksela, C.Z. Dong, S. Heinäsmäki and J.E. Sienkiewicz, Theoretical Auger and photoionization studies for open-shell atoms and ions . . . 205 (2003) 93
Fritzsche, S., see Surzhykov, A. . . . 205 (2003) 391
Fritzsche, S., A. Surzhykov and Th. Stöhlker, Wave packet approach to the ionization of high-Z, hydrogen-like ions . . . 205 (2003) 469
Fröjdh, Ch., see Marchal, J. . . . 206 (2003) 462
Fu, R.K.Y., see Tang, D.L. . . . 206 (2003) 808
Fu, Y.C., see An, Z. . . . 207 (2003) 268
Fuchi, Y., see Miyatake, H. . . . 204 (2003) 746
Fuhrmann, H., see Anagnostopoulos, D.F. . . . 205 (2003) 9
Fujimaki, M., see Hattori, M. . . . 210 (2003) 272
Fujimoto, T., see Sato, Y. . . . 201 (2003) 571
Fujino, Y., see Kasukabe, Y. . . . 206 (2003) 390
Fujisawa, M., see Matsuyama, S. . . . 210 (2003) 59

Fujita, J., M. Ishida, T. Ichihashi, Y. Ochiai, T. Kaito and S. Matsui, Growth of three-dimensional nanostructures using FIB-CVD and its mechanical properties 206 (2003) 472
Fujita, K., see Xu, G.C. 206 (2003) 362
Fujita, T., see Okuno, H. 201 (2003) 259
Fujiwara, E., see Oka, Y. 206 (2003) 700
Fujiwara, T., see Mukaigawa, S. 206 (2003) 777
Fujiwara, T., see Takaki, K. 206 (2003) 794
Fujiwara, Y., N. Toyoda, K. Mochiji, T. Mitamura and I. Yamada, Reduction of surface roughness by Ta_2O_5 film formation with O_2 cluster ion assisted deposition 206 (2003) 870
Fujiwara, Y., see Toyoda, N. 206 (2003) 875
Fukuda, M., S. Kurashima, N. Miyawaki, S. Okumura, T. Kamiya, M. Oikawa, Y. Nakamura, T. Nara, T. Agematsu, I. Ishibori, K. Yoshida, W. Yokota, K. Arakawa, Y. Kumata, Y. Fukumoto and K. Saito, An energy spread minimization system for microbeam generation in the JAERI AVF cyclotron 210 (2003) 33
Fukuda, M., see Oikawa, M. 210 (2003) 54
Fukudome, T., A. Kaminaka, H. Isshiki, R. Saito, S. Yugo and T. Kimura, Optical characterization of Er-implanted ZnO films formed by sol–gel method 206 (2003) 287
Fukui, K., see Kitamura, S. 206 (2003) 548
Fukumi, K., A. Chayahara, H. Kageyama, A. Kinomura, Y. Mokuno, N. Kitamura, K. Kadono, Y. Horino and J. Nishii, Sequential implantation of halogen and copper ions in silica glass 206 (2003) 353
Fukumoto, Y., see Fukuda, M. 210 (2003) 33
Fukunishi, N., see Nakai, Y. 205 (2003) 784
Fukuyama, Y., see Wada, M. 204 (2003) 570
Fülling, S., see Merabet, H. 205 (2003) 399
Funahashi, R., see Heck, C. 206 (2003) 601
Funayama, T., see Wada, S. 206 (2003) 553
Funayama, T., see Kobayashi, Y. 210 (2003) 308
Funayama, T., see Kiguchi, K. 210 (2003) 312
Fuoco, E.R., see Hanley, L. 203 (2003) 116
Furukawa, K., see Okuno, H. 201 (2003) 259
Furukawa, S., see Nakano, T. 210 (2003) 316
Furuno, K., see Sasa, K. 210 (2003) 48
Furuno, K., T. Komatsubara, K. Sasa, H. Oshima, Y. Yamato, S. Ishii, H. Kimura and M. Kurosawa, Measurement of hydrogen concentration in thick mineral or rock samples 210 (2003) 459
Furusawa, Y., see Yamaguchi, H. 210 (2003) 292
Furuya, K., see Mitsuishi, K. 206 (2003) 109
Fynbo, H., see Kester, O. 204 (2003) 20
Fynbo, H., see Bergmann, U.C. 204 (2003) 220
Fynbo, H., see Köster, U. 204 (2003) 303
Fynbo, H., see Köster, U. 204 (2003) 347
Fynbo, H.O.U., Doppler broadened γ-lines from exotic nuclei 207 (2003) 275

Gaelens, M., M. Cogneau, M. Loiselet and G. Ryckewaert, Post-acceleration of ^{7}Be at the Louvain-la-Neuve radioactive ion beam facility 204 (2003) 48
Gäggeler, H.W., see Köster, U. 204 (2003) 343
Gaiduk, P.I., see Wesch, W. 206 (2003) 1018
Gaillard, M.J., see Farizon, B. 209 (2003) 9
Galès, S., see Essabaa, S. 204 (2003) 780
Gallien, J.-P., see Daudin, L. 210 (2003) 153
Gallien, J.-P., see Bureau, H. 210 (2003) 434
Gallien, J.P., see Orberger, B. 210 (2003) 441
Galligan, E.A., see Doyle, J.P. 206 (2003) 467
Galovich, C.S., see Engel, S. 204 (2003) 416
Gamal, Y.E.E.-D., see Abd El-Hameed, A.M. 205 (2003) 271
Gammino, S., see Ciavola, G. 204 (2003) 410
Gammino, S., G. Ciavola, L. Celona, L. Andò, D. Hitz, A. Girard and G. Melin, Third generation ECR ion sources: News and perspectives 205 (2003) 162

Gammino, S., L. Torrisi, G. Ciavola, L. Andò, J. Wolowski, L. Laska, J. Krasa and A. Picciotto, Highly charged heavy ion generation by pulsed laser irradiation 209 (2003) 345
Gamo, K., see Yuba, Y. 206 (2003) 648
Gamo, K., see Itou, M. 206 (2003) 1013
Ganchenkova, M., A. Nazarov and A. Kuznetsov, Formation and stability of radiation defect complexes in Si and Si:Ge: Composition and pressure effects 202 (2003) 107
Ganeev, R.A., see Stepanov, A.L. 206 (2003) 624
Gao, F., G. Henkelman, W.J. Weber, L.R. Corrales and H. Jónsson, Finding possible transition states of defects in silicon-carbide and alpha-iron using the dimer method 202 (2003) 1
Gao, F., see Weber, W.J. 206 (2003) 1
Gao, F., see Wang, C.M. 207 (2003) 1
Gao, F. and W.J. Weber, Atomic simulation of ion–solid interaction in ceramics 207 (2003) 10
Gao, F., C.M. Wang, S. Maheswaran and S. Thevuthasan, Atomic-level simulations of misfit dislocation at the interface of Fe_2O_3/Al_2O_3 system 207 (2003) 63
Gao, Y., S.P. Wong, W.Y. Cheung, G. Shao and K.P. Homewood, Characterization and light emission properties of β-$FeSi_2$ precipitates in Si synthesized by metal vapor vacuum arc ion implantation 206 (2003) 317
García-Blanco, S., A.J. Kellock, J.E.E. Baglin, A. Glidle, J.M. Cooper, J.S. Aitchison and R.M. De La Rue, Fabrication of optical waveguides by 2 MeV Ar^+ irradiation of germanium-doped flame-hydrolysis deposited silica 206 (2003) 440
Gardès, D., see Essabaa, S. 204 (2003) 780
Gardès-Albert, M., see Baldacchino, G. 209 (2003) 219
Garrett, P.E., see Batchelder, J.C. 204 (2003) 625
Garrett, P.E., see Svensson, C.E. 204 (2003) 660
Garrison, B.J., see Postawa, Z. 202 (2003) 168
Garrison, B.J., see Yingling, Y.G. 202 (2003) 188
Garrison, B.J., see Krantzman, K.D. 202 (2003) 201
Gärtner, K., see Otto, G. 202 (2003) 114
Gärtner, K. and B. Weber, Molecular dynamics simulations of solid-phase epitaxial growth in silicon 202 (2003) 255
Gärtner, K., see Wesch, W. 206 (2003) 1018
Gärtner, K., see Wendler, E. 206 (2003) 1028
Garvey, T., see Essabaa, S. 204 (2003) 780
Garwan, M.A., see Ahmed, M. 210 (2003) 548
Gasilov, V.A., see Blasco, F. 205 (2003) 324
Gastineau, B., see Geissel, H. 204 (2003) 71
Gatignon, L., see Artru, X. 201 (2003) 243
Gaubert, G., see Gibouin, S. 204 (2003) 240
Gaubert, G., see Jardin, P. 204 (2003) 377
Gauja, E., see Yang, C. 210 (2003) 186
Gauldie, R.W., see Markwitz, A. 210 (2003) 418
Gausemel, H., see Bergmann, U.C. 204 (2003) 220
Gautrot, S., see Vincent, L. 207 (2003) 339
Gauyacq, J.P., see Sjakste, J. 203 (2003) 49
Gazazian, E.D., see Elbakian, S.S. 201 (2003) 44
Gazazian, E.D., K.A. Ispirian and M.I. Ivanian, Coherent transition radiation of particle bunches in radiowave region 201 (2003) 84
Gebeshuber, I.C., S. Cernusca, F. Aumayr and HP. Winter, AFM search for slow MCI-produced nanodefects on atomically clean monocrystalline insulator surfaces 205 (2003) 751
Geissel, H., H. Weick, M. Winkler, G. Münzenberg, V. Chichkine, M. Yavor, T. Aumann, K.H. Behr, M. Böhmer, A. Brünle, K. Burkard, J. Benlliure, D. Cortina-Gil, L. Chulkov, A. Dael, J.-E. Ducret, H. Emling, B. Franczak, J. Friese, B. Gastineau, J. Gerl, R. Gernhäuser, M. Hellström, B. Jonson, J. Kojouharova, R. Kulessa, B. Kindler, N. Kurz, B. Lommel, W. Mittig, G. Moritz, C. Mühle, J.A. Nolen, G. Nyman, P. Roussel-Chomaz, C. Scheidenberger, K.-H. Schmidt, G. Schrieder, B.M. Sherrill, H. Simon, K. Sümmerer, N.A. Tahir, V. Vysotsky, H. Wollnik and A.F. Zeller, The Super-FRS project at GSI 204 (2003) 71
Geissel, H., see Scheidenberger, C. 204 (2003) 119
Geissel, H., see Tahir, N.A. 204 (2003) 282
Geissel, H., see Winkler, M. 204 (2003) 454
Geissel, H., see Sikler, G. 204 (2003) 482

Geissel, H., see Savard, G. 204 (2003) 582
Gejo, T., see Kanda, K. 206 (2003) 880
Gendreau, K.C., see Beiersdorfer, P. 205 (2003) 173
Gennaro, G., see Rossi, P. 210 (2003) 123
Gennaro, S., E. Collart, Y. Wang, B.J. Sealy and R.M. Gwilliam, Indium clustering in a silicon matrix in the presence of carbon co-implantation 209 (2003) 136
Gentens, J., see Kudryavtsev, Yu. 204 (2003) 336
Genz, H., see Pugachov, D. 201 (2003) 55
Georg, U., see Bergmann, U.C. 204 (2003) 220
Georg, U., see Lettry, J. 204 (2003) 251
Georg, U., see Köster, U. 204 (2003) 303
Georg, U., see Köster, U. 204 (2003) 347
Georg, U., see Lettry, J. 204 (2003) 363
Georg, U., see Giles, T.J. 204 (2003) 497
George, D.P., see Yang, C. 210 (2003) 186
Geppert, C., see Blaum, K. 204 (2003) 331
Geppert, Ch., see Wendt, K.D.A. 204 (2003) 325
Geraci, M., see Lanzanò, G. 205 (2003) 841
Geraci, M., see Lanzanò, G. 209 (2003) 212
Gerasimenko, N.N., M.N. Pavluchenko, V.D. Levchenko, K.K. Djamanbalin, V.Yu. Troitskiy and A.M. Skobochkin, Fractal, wavelet and Fourier analysis for investigation of nanoscale $CoSi_2$ structures in Si produced by ion synthesis 206 (2003) 299
Gerasimenko, N.N., Yu.N. Parhomenko, V.Yu. Troitskiy, A.V. Irzhak, M.N. Pavluchenko, K.K. Djamanbalin and A.S. Belogorohov, Quantum-dimensional structures produced by ion implantation 206 (2003) 644
Gerl, J., see Geissel, H. 204 (2003) 71
Gerl, J., see Lozeva, R. 204 (2003) 678
Gerlach, J.W., see Mändl, S. 206 (2003) 668
Gernhäuser, R., see Geissel, H. 204 (2003) 71
Gervais, B., M. Beuve, M. Caron and H. Rothard, Saturation effects in highly charged ion interaction with thin carbon foils 205 (2003) 835
Gerward, L., see Singh, H. 207 (2003) 257
Ghaleb, D., see Boizot, B. 210 (2003) 537
Gharaibeh, M.F., see Schippers, S. 205 (2003) 297
Gharaibeh, M.F., see Müller, A. 205 (2003) 301
Ghica, C., see Canut, B. 209 (2003) 335
Gianfrancesco, O., see Moore, R.B. 204 (2003) 557
Giannazzo, F., see De Salvador, D. 206 (2003) 922
Gibouin, S., A.C.C. Villari, J.C. Angelique, O. Bajeat, F. Bocage, J.M. Casandjian, S. Essabaa, G. Gaubert, Y. Huguet, A. Joinet, P. Jardin, S. Kandri, A. Khouaja, F. Landre-Pellemoine, C. Lau, N. Lecesne, H. Lefort, R. Leroy, C. Marry, L. Maunoury, D. Nayak, J.Y. Pacquet, M.G. Saint-Laurent and C. Stodel, Efficiency and production yield measurements of radioactive O, N and F for the spiral facility 204 (2003) 240
Giglio, E., P.-G. Reinhard and E. Suraud, Influence of the dynamical correlations on the ionization of irradiated metal clusters 205 (2003) 350
Gigliotti, D., see Engel, S. 204 (2003) 416
Gigliotti, D.G., J.G. Rogers and A.H. Hussein, Calibration and simulation of a gamma array for DRAGON at ISAC 204 (2003) 671
Gijbels, R., see Neyts, E. 202 (2003) 300
Gilardoni, S., see Catherall, R. 204 (2003) 235
Gilardoni, S., see Lettry, J. 204 (2003) 251
Gilbody, H.B., see McCullough, R.W. 205 (2003) 581
Gilchrist, S., see Folkard, M. 210 (2003) 302
Giles, T., see Bergmann, U.C. 204 (2003) 220
Giles, T., see Köster, U. 204 (2003) 303
Giles, T., see Köster, U. 204 (2003) 347
Giles, T.J., R. Catherall, V. Fedosseev, U. Georg, E. Kugler, J. Lettry and M. Lindroos, The high resolution spectrometer at ISOLDE 204 (2003) 497
Gillaspy, J., see Matranga, M. 205 (2003) 244

Gillaspy, J.D., see Takács, E. 205 (2003) 144
Gillaspy, J.D., see Tawara, H. 205 (2003) 605
Gionnet, K., see Betz, N. 208 (2003) 434
Girard, A., see Gammino, S. 205 (2003) 162
Girard, A., see Hitz, D. 205 (2003) 168
Girard, J.C., A. Michel, C. Tromas, C. Jaouen and S. Della-Negra, Track formation in amorphous $Fe_{0.55}Zr_{0.45}$ alloys irradiated by MeV C_{60} ions: Influence of intrinsic stress on induced surface deformations 209 (2003) 85
Giubilato, P., see Bisello, D. 210 (2003) 142
Giustolisi, F., see Lanzanò, G. 205 (2003) 841
Giustolisi, F., see Lanzanò, G. 209 (2003) 212
Gläsel, H.-J., see Bauer, F. 208 (2003) 267
Gläsel, H.-J., F. Bauer, E. Hartmann, R. Mehnert, H. Möbus and V. Ptatschek, Radiation-cured polymeric nanocomposites of enhanced surface-mechanical properties 208 (2003) 303
Glasmacher, U.A., M. Lang, S. Klemme, B. Moine, L. Barbero, R. Neumann and G.A. Wagner, Alpha-recoil tracks in natural dark mica: Dating geological samples by optical and scanning force microscopy 209 (2003) 351
Glasmacher, U.A., see Lang, M. 209 (2003) 357
Glazov, D.A., see Shabaev, V.M. 205 (2003) 20
Glazov, L.G. and P. Sigmund, Nuclear stopping in transmission experiments 207 (2003) 240
Glidle, A., see García-Blanco, S. 206 (2003) 440
Glinec, Y., see Caillaud, T. 205 (2003) 329
Gloos, K., see Huang, W.X. 204 (2003) 592
Glover, C.J., see de M. Azevedo, G. 206 (2003) 1024
Głowacka, E., see Przybyłowicz, W.J. 210 (2003) 343
Göb, S., see Bodmann, B. 208 (2003) 495
Gobert, O., see Adoui, L. 205 (2003) 341
Gobet, F., see Farizon, B. 209 (2003) 9
Gochitashvili, M., B. Kikiani and R. Lomsadze, Formation of doubly charged potassium ions in K^+–He and K^+–Kr collisions in the 1–10 keV energy range 205 (2003) 494
Godunov, A.L., see Merabet, H. 205 (2003) 399
Goergens, L., see Schubert, M. 209 (2003) 224
Gójska, A., see Rzadkiewicz, J. 205 (2003) 128
Golanski, A., J.P. Stoquert, P. Kern, F. Piazza and S. Schulze, Impact of energy density and stress fields on the nucleation dynamics of plasma deposited a-C:H films 206 (2003) 731
Golombeck, M.-A., S. Heise, K. Schloesser, B. Schuessler and H. Schweickert, Intravascular brachytherapy with radioactive stents produced by ion implantation 206 (2003) 495
Golovko, V.V., see Beck, M. 204 (2003) 521
Golovkov, M.S., see Rodin, A.M. 204 (2003) 114
Golubev, A., see Shirkov, G. 205 (2003) 215
Golubev, V., see Artru, X. 201 (2003) 243
Gomes, G.F., see Ueda, M. 206 (2003) 749
Gómez-Morilla, I., see Rajta, I. 210 (2003) 260
Gomi, S., see Ninomiya, S. 209 (2003) 233
Goncalves, M., see Betz, N. 208 (2003) 434
González, A.D., see Zouros, T.J.M. 205 (2003) 508
González, J., see Albano, C. 208 (2003) 485
González, R., see Alves, E. 206 (2003) 148
González Martínez, A.J., see Mironov, V. 205 (2003) 183
Gorczyca, T.W., see Zouros, T.J.M. 205 (2003) 508
Gorelov, A., see Melconian, D. 204 (2003) 540
Gorska, M., see Köster, U. 204 (2003) 347
Górska, M., see Lozeva, R. 204 (2003) 678
Gosset, D., see Trocellier, P. 206 (2003) 1077
Gosset, D., see Trocellier, P. 210 (2003) 507
Goswami, D.K., see Kamila, J. 207 (2003) 291
Gotoh, Y., see Kawanowa, H. 203 (2003) 178
Gotoh, Y., see Tsuji, H. 206 (2003) 249
Gotoh, Y., see Tsuji, H. 206 (2003) 507

Gotoh, Y., see Tsuji, H. ... 206 (2003) 615
Gotoh, Y., see Arai, N. ... 206 (2003) 629
Gotor, C., see Ager, F.J. ... 210 (2003) 401
Gotta, D., see Anagnostopoulos, D.F. ... 205 (2003) 9
Gouget, B., see Khodja, H. ... 210 (2003) 359
Gouzman, I., see Grossman, E. ... 208 (2003) 48
Graber, T., see Lettry, J. ... 204 (2003) 251
Graeff, W., see Misiuk, A. ... 207 (2003) 233
Graf, A., see Beiersdorfer, P. ... 205 (2003) 173
Grahn, T., see Uusitalo, J. ... 204 (2003) 638
Grambole, D., T. Wang, F. Herrmann and F. Eichhorn, Hydrogen redistribution in titanium due to bending stress studied by micro ERDA ... 210 (2003) 526
Grande, P.L., see Schiwietz, G. ... 209 (2003) 26
Grandin, J.-P., see Buchet-Poulizac, M.C. ... 205 (2003) 106
Grasselli, M., see Carbajal, M.L. ... 208 (2003) 416
Grawe, H., see Roeckl, E. ... 204 (2003) 53
Greene, J., see Müller, P. ... 204 (2003) 536
Greene, J.P., see Savard, G. ... 204 (2003) 582
Greene, L.H., see Kiefl, R.F. ... 204 (2003) 682
Greenenko, A.A. and N.F. Shul'ga, Fast ion passing through straight and bent nanotubes ... 205 (2003) 767
Greenlees, P., see Uusitalo, J. ... 204 (2003) 638
Greenlees, P.T., see Page, R.D. ... 204 (2003) 634
Greenwood, C.L., see Tolstogouzov, A. ... 203 (2003) 198
Greenwood, J.B., see McCullough, R.W. ... 205 (2003) 581
Greier, A., see Hutton, R. ... 205 (2003) 114
Greife, U., see Engel, S. ... 204 (2003) 416
Grialou, D., see Essabaa, S. ... 204 (2003) 780
Gridnev, G.F., see Artukh, A.G. ... 204 (2003) 159
Griffith, J.A.R., see Nieminen, A. ... 204 (2003) 563
Grigoryan, L.Sh., A.H. Mkrtchyan, H.F. Khachatryan, V.U. Tonoyan and W. Wagner, Planar channeled relativistic electrons and positrons in the field of resonant hypersonic wave ... 201 (2003) 25
Grinyer, G.F., see Svensson, C.E. ... 204 (2003) 660
Grishechkin, S.K., see Rodin, A.M. ... 204 (2003) 114
Grismanovs, V., see Nakazawa, T. ... 206 (2003) 166
Grizzi, O., see Sánchez, E.A. ... 203 (2003) 41
Grob, J.J., see D'Orléans, C. ... 209 (2003) 316
Groß, M., see Habs, D. ... 204 (2003) 739
Groeneveld, K.O., see Neugebauer, R. ... 209 (2003) 62
Grossman, E. and I. Gouzman, Space environment effects on polymers in low earth orbit ... 208 (2003) 48
Grossmann, F., see Kentsch, U. ... 205 (2003) 260
Grossmann, F., see Kentsch, U. ... 205 (2003) 266
Grosu, E., M. Răpă, A. Tomescu, E. Nemeş, T. Zaharescu, S. Jipa, R. Setnescu and C. Vasile, Radiation processing of elastomer materials for medical uses ... 208 (2003) 220
Grötzschel, R., see Kokkoris, M. ... 201 (2003) 623
Groves, M.N., see Melconian, D. ... 204 (2003) 540
Groza, L., see Mirea, M. ... 201 (2003) 433
Gruber, A., see Anagnostopoulos, D.F. ... 205 (2003) 9
Gruber, R., see Draxler, M. ... 203 (2003) 218
Grum-Grzhimailo, A.N., see Merabet, H. ... 205 (2003) 399
Grün, N., see Brandau, C. ... 205 (2003) 66
Grün, N., see Müller, C. ... 205 (2003) 306
Grün, N., see Zakowicz, S. ... 205 (2003) 386
Grün, N., see Voitkiv, A.B. ... 205 (2003) 504
Grüner, F., see Schubert, M. ... 209 (2003) 224
Grushin, S., see Shirkov, G. ... 205 (2003) 215
Grynszpan, R., see Trocellier, P. ... 206 (2003) 1077
Grynszpan, R., see Trocellier, P. ... 210 (2003) 507

Grzywacz, R., see Batchelder, J.C. ... 204 (2003) 625
Grzywacz, R., Applications of digital pulse processing in nuclear spectroscopy ... 204 (2003) 649
Gschwind, R., see Guillerminet, C. ... 207 (2003) 124
Gstir, B., S. Denifl, G. Hanel, M. Rümmele, T. Fiegele, M. Stano, L. Feketeova, S. Matejcik, K. Becker, P. Scheier and T.D. Märk, High resolution multiple electron impact ionisation of He, Ne, Ar, Kr and Xe atoms close to threshold: Appearance energies and Wannier exponents ... 205 (2003) 413
Gu, M.-F., see Beiersdorfer, P. ... 205 (2003) 173
Gu, S., see Melconian, D. ... 204 (2003) 540
Guan, X., see Liu, W. ... 204 (2003) 62
Guet, C., see Manil, B. ... 205 (2003) 684
Güdermann, C., see Lettry, J. ... 204 (2003) 251
Gugiu, M.M., see Ciortea, C. ... 205 (2003) 789
Guglielmino, S., see Satriano, C. ... 208 (2003) 287
Guidi, V., see Bellucci, S. ... 202 (2003) 236
Guiet-Bara, A., see Michelet-Habchi, C. ... 210 (2003) 354
Guillaume, L., see Laurent, G. ... 205 (2003) 546
Guille, J.L., see D'Orléans, C. ... 209 (2003) 316
Guillemaud-Mueller, D., see Lau, C. ... 204 (2003) 246
Guillemaud-Mueller, D., see Lau, C. ... 204 (2003) 257
Guillemaud-Mueller, D., see Essabaa, S. ... 204 (2003) 780
Guillerminet, C., R. Gschwind, L. Makovicka, J. Novotny Jr., V. Spevacek and T. Cechak, Determination of 3D dose distribution by PAG and Monte-Carlo simulations ... 207 (2003) 124
Guillou, F., see Sergeant, C. ... 210 (2003) 349
Guimond, S., see Truica-Marasescu, F. ... 208 (2003) 294
Gulbekyan, G., see Efremov, A. ... 204 (2003) 368
Gulbekyan, G.G., see Oganessian, Yu.Ts. ... 204 (2003) 606
Gulick, S., see Clark, J. ... 204 (2003) 487
Gulick, S., see Savard, G. ... 204 (2003) 582
Gulyás, L., see Kirchner, T. ... 205 (2003) 479
Gumberidze, A., see Stöhlker, Th. ... 205 (2003) 210
Gumberidze, A., Th. Stöhlker, G. Bednarz, H.F. Beyer, F. Bosch, X. Cai, S. Hagmann, O. Klepper, C. Kozhuharov, D. Liesen, X. Ma, P.H. Mokler, D. Sierpowski, Z. Stachura, M. Steck, S. Toleikis, A. Warczak and Y. Zou, X-ray transitions studied for decelerated bare and H-like uranium ions at the ESR electron cooler ... 205 (2003) 374
Gumberidze, A., see Ma, X. ... 205 (2003) 550
Gumberidze, A., see Bednarz, G. ... 205 (2003) 573
Gumberidze, A., see Dauvergne, D. ... 205 (2003) 773
Gumberidze, A., see Bräuning, H. ... 205 (2003) 826
Gumbrell, E.T., see Tisch, J.W.G. ... 205 (2003) 310
Gunns, A.E., see Marstein, E.S. ... 207 (2003) 424
Gunnlaugsson, H.P., see Weyer, G. ... 206 (2003) 90
Günster, J., see Krischok, S. ... 203 (2003) 124
Guo, P., see Mironov, V. ... 205 (2003) 183
Guo, P., see Li, X. ... 210 (2003) 412
Gürdal, G., see Ressler, J.J. ... 204 (2003) 141
Gurinovich, A.A., see Andrukhovich, S.K. ... 207 (2003) 219
Gustavsson, M.G.H., see Beiersdorfer, P. ... 205 (2003) 62
Gutierrez, F.A., C. Harel, S. Jequier and H. Jouin, Analysis of charge transfer mechanisms in grazing incidence collisions between $He^+(1s)$ ions and Al(111) surfaces ... 203 (2003) 16
Gutierrez, F.A., see Jequier, S. ... 205 (2003) 709
Güven, O., see Uzun, C. ... 208 (2003) 242
Güven, O., see Özdemir, S. ... 208 (2003) 395
Güven, O., see Şen, M. ... 208 (2003) 480
Gwilliam, R., see Marchal, J. ... 206 (2003) 462
Gwilliam, R., see Ahmed, S. ... 206 (2003) 1003
Gwilliam, R., see Ahmed, S. ... 206 (2003) 1008
Gwilliam, R.M., see Webb, R.P. ... 202 (2003) 143

Gwilliam, R.M., see Lourenço, M.A. ... 206 (2003) 436
Gwilliam, R.M., see Gennaro, S. ... 209 (2003) 136
Gwinner, G., see Träbert, E. ... 205 (2003) 83
Gwinner, G., see Kieslich, S. ... 205 (2003) 99
Gwinner, G., see Schnell, M. ... 205 (2003) 367

Haas, F., see D'Orléans, C. ... 209 (2003) 316
Häberlen, M., J.K.N. Lindner and B. Stritzker, Creation of internal point defect drains in silicon by carbon implantation ... 206 (2003) 916
Habraken, F.H.P.M., see Arnoldbik, W.M. ... 203 (2003) 151
Habs, D., see Kester, O. ... 204 (2003) 20
Habs, D., see Sikler, G. ... 204 (2003) 482
Habs, D., see Szerypo, J. ... 204 (2003) 512
Habs, D., M. Groß, W. Assmann, F. Ames, H. Bongers, S. Emhofer, S. Heinz, S. Henry, O. Kester, J. Neumayr, F. Ospald, P. Reiter, T. Sieber, J. Szerypo, P.G. Thirolf, V. Varentsov, T. Wilfart, T. Faestermann, R. Krücken and P. Maier-Komor, The Munich accelerator for fission fragments MAFF ... 204 (2003) 739
Hackman, G.S., see Svensson, C.E. ... 204 (2003) 660
Hada, Y., see Nakagawa, S.T. ... 202 (2003) 149
Haddeman, E.F.C. and B.J. Thijsse, Transient sputtering of silicon by argon studied by molecular dynamics simulations ... 202 (2003) 161
Häffner, H., see Beier, T. ... 205 (2003) 15
Hagebø, E., see Beyer, G.J. ... 204 (2003) 225
Hagmann, S., see Stöhlker, Th. ... 205 (2003) 156
Hagmann, S., Th. Stöhlker, J. Ullrich, Ch. Kozhuharov, R. Moshammer, H. Kollmus, R. Mann and M. Nofal, A forward electron spectrometer for the ESR ... 205 (2003) 207
Hagmann, S., see Gumberidze, A. ... 205 (2003) 374
Hagmann, S., see Bednarz, G. ... 205 (2003) 573
Hahn, H., see Voegeli, W. ... 202 (2003) 230
Hai, L., T. Bang Diep, N. Nagasawa, F. Yoshii and T. Kume, Radiation depolymerization of chitosan to prepare oligomers ... 208 (2003) 466
Hajduk, R., see Lekki, J. ... 210 (2003) 472
Hakala, J., see Kolhinen, V.S. ... 204 (2003) 502
Halász, L., see Zsigmond, B. ... 208 (2003) 247
Haller, E., see Matranga, M. ... 205 (2003) 244
Haller, E.E., see Takács, E. ... 205 (2003) 144
Halliwell, B., see Minqin, R. ... 210 (2003) 336
Hama, Y., T. Oka, H. Kudoh, M. Sugimoto and T. Seguchi, Irradiation effects in polymers by heavy ions: The distribution of the chemical structure transformation in polymers ... 208 (2003) 123
Hama, Y., see Oka, T. ... 208 (2003) 181
Hamano, T., see Imaseki, H. ... 210 (2003) 42
Hamano, T., see Yamaguchi, H. ... 210 (2003) 292
Hamatani, Y., see Ono, F. ... 206 (2003) 295
Hamatani, Y., see Iwase, A. ... 209 (2003) 323
Hamatsu, R., see Karataev, P. ... 201 (2003) 140
Hamatsu, R., see Karataev, P. ... 201 (2003) 201
Hamatsu, R., see Okuno, H. ... 201 (2003) 259
Hamilton, J.H., see Batchelder, J.C. ... 204 (2003) 625
Hammerl, C., Y. Bohne, W. Assmann, K. Helming and B. Rauschenbach, Formation of buried oxide layers in titanium by high-fluence oxygen ion implantation ... 206 (2003) 1072
Hammerton, K., see Orlic, I. ... 210 (2003) 330
Hamouz, Z., see Ahmed, M. ... 210 (2003) 548
Han, K.-H., see Spemann, D. ... 210 (2003) 531
Hanashima, S., see Miyatake, H. ... 204 (2003) 746
Hanatani, K., see Kawanowa, H. ... 203 (2003) 178
Haneda, H., see Sakaguchi, I. ... 206 (2003) 153
Haneda, H., see Hishita, S. ... 206 (2003) 171
Hanel, G., see Gstir, B. ... 205 (2003) 413

Hanley, L., Y. Choi, E.R. Fuoco, F. Ahu Akin, M.B.J. Wijesundara, M. Li, A. Tikhonov and M. Schlossman, Controlling the nanoscale morphology of organic films deposited by polyatomic ions 203 (2003) 116
Hannawald, M., see Köster, U. 204 (2003) 347
Hanssen, J., see Hervieux, P.-A. 205 (2003) 677
Harada, A., see Muramoto, T. 202 (2003) 289
Harada, M., see Yamashita, H. 206 (2003) 889
Harada, N. and H. Takai, Formation of β-$FeSi_2$ thin films by partially ionized vapor deposition 206 (2003) 308
Harada, S., Y. Tamakawa, K. Ishii, A. Tanaka, T. Satoh, S. Matsuyama, H. Yamazaki, Y. Komori, T. Kamiya, T. Sakai, K. Arakawa, M. Saitoh, M. Oikawa and K. Sera, The kinetics of Fe and Ca for the development of radiation-induced apoptosis by micro-PIXE imaging 210 (2003) 383
Haraguchi, M., H. Yamamoto, K. Yamaguchi, T. Nakanoya, T. Saito, M. Sasase and K. Hojou, Effect of surface treatment of Si substrate on the crystal structure of $FeSi_2$ thin film formed by ion beam sputter deposition method 206 (2003) 313
Haraguchi, M., see Saito, T. 206 (2003) 321
Harakeh, M.N., see Berg, G.P. 204 (2003) 532
Hardy, J.C., see Clark, J. 204 (2003) 487
Harel, C., see Gutierrez, F.A. 203 (2003) 16
Harel, C., see Jequier, S. 205 (2003) 709
Harima, H., see Eryu, O. 206 (2003) 969
Harissopulos, S., see Kokkoris, M. 201 (2003) 623
Harjo, S., see Shibata, T. 206 (2003) 139
Harjo, S., see Motohashi, Y. 206 (2003) 144
Harris, C.L., see Beiersdorfer, P. 205 (2003) 173
Hartley, D.J., see Batchelder, J.C. 204 (2003) 625
Hartmann, E., see Bauer, F. 208 (2003) 267
Hartmann, E., see Gläsel, H.-J. 208 (2003) 303
Haruyama, Y., see Kanda, K. 206 (2003) 880
Hasan, A.A., see Kamber, E.Y. 205 (2003) 577
Hase, M., see Kitajima, M. 206 (2003) 99
Hase, Y., see Yamaguchi, H. 206 (2003) 561
Hase, Y., see Morishita, T. 206 (2003) 565
Hase, Y., see Ishii, K. 206 (2003) 570
Hase, Y., see Okamura, M. 206 (2003) 574
Hase, Y., see Maekawa, M. 206 (2003) 579
Hassanein, A., see Nolen, J.A. 204 (2003) 293
Hassanein, A., see Nolen, J.A. 204 (2003) 298
Hassanpour, S. and F. Khoylou, The effect of different stabilizers on the thermostability of electron beam crosslinked polyethylene in hot water 208 (2003) 358
Hassnisaber, M., see Uzun, C. 208 (2003) 242
Hatada, R., see Baba, K. 206 (2003) 704
Hatada, R., see Baba, K. 206 (2003) 708
Hatakeyama, A., see Kiefl, R.F. 204 (2003) 682
Hatakeyama, A., see Levy, C.D.P. 204 (2003) 689
Hatashita, M., see Yasuda, K. 210 (2003) 27
Hathiramani, D., see Aichele, K. 205 (2003) 437
Hatke, N., see Robin, A. 209 (2003) 259
Hatori, S., see Sasase, M. 209 (2003) 179
Hatori, S., see Ito, Y. 209 (2003) 362
Hatori, S., see Yasuda, K. 210 (2003) 27
Hattori, M., Y. Ohki, M. Fujimaki, T. Souno, H. Nishikawa, E. Watanabe, M. Oikawa, T. Kamiya and K. Arakawa, Characterization of refractive index changes of silica glass induced by ion microbeam 210 (2003) 272
Hattori, M., see Souno, T. 210 (2003) 277
Hauffe, W., see Zier, M. 202 (2003) 182
Hauptner, A., see Dollinger, G. 210 (2003) 6
Hauptner, A., see Reichart, P. 210 (2003) 135
Hausmann, M., see Scheidenberger, C. 204 (2003) 119
Havancsak, K., see Skuratov, V.A. 203 (2003) 136

Haworth, L.I., see Donnelly, S.E. ... 206 (2003) 422
Hay, N., see Tisch, J.W.G. ... 205 (2003) 310
Hayano, H., see Karataev, P. ... 201 (2003) 140
Hayano, H., see Karataev, P. ... 201 (2003) 201
Hayashi, K., H. Konno, T. Oseki, H. Kojima and T. Kanayama, Comparison of methods to measure the rate of neutral free radical production by photo-deionization of negative ion beams ... 206 (2003) 403
Hayashi, K., see Takayama, H. ... 210 (2003) 108
Hayashi, N., T. Moriwaki, I. Sakamoto, T. Toriyama and H. Wakabayashi, TMR effects of sputtered Fe–Al–O granular films after irradiation by high energy ions ... 206 (2003) 1066
Hazama, S., see Yuba, Y. ... 206 (2003) 648
Hazdra, P. and H. Dorschner, Radiation defect distribution in silicon irradiated with 600 keV electrons ... 201 (2003) 513
Hazıroğlu, R., see Özdemir, S. ... 208 (2003) 395
He, W.-H., H.-S. Kang, D.-Y. Shen, R. Nie, Y.-X. Shen and F.-R. Ding, Enhancement of nuclear energy loss of Al_3 cluster during ion beam mixing ... 201 (2003) 449
Hearne, S.M., D.N. Jamieson, C. Yang and A.S. Dzurak, TCAD modeling of ion beam induced charge collection in silicon Schottky barrier devices ... 210 (2003) 181
Hearne, S.M., see Yang, C. ... 210 (2003) 186
Hearne, S.M., see Nishijima, T. ... 210 (2003) 196
Heßberger, F., see Sikler, G. ... 204 (2003) 482
Heßberger, F.P., Experimental developments for the investigation of superheavy elements ... 204 (2003) 597
Hecht, A.A., see Ressler, J.J. ... 204 (2003) 141
Heck, C., A. Chayahara, Y. Horino, R. Funahashi, R.M.N. Miranda and M.N. Baibich, Resistivity of nanostructured Fe–Cr films ... 206 (2003) 601
Heck, C., see Lee, Y.-Y. ... 206 (2003) 754
Hee Chul Lee, see Sridharan, M. ... 201 (2003) 465
Heera, V., see Kögler, R. ... 206 (2003) 989
Heerlein, C., G. Zwicknagel and C. Toepffer, Scaling law for recombination in electron coolers ... 205 (2003) 395
Heffner, R., see Kiefl, R.F. ... 204 (2003) 682
Hegemann, D., H. Brunner and C. Oehr, Plasma treatment of polymers for surface and adhesion improvement ... 208 (2003) 281
Heiß, M., see Fischer, B.E. ... 210 (2003) 285
Heiß, M., see Cholewa, M. ... 210 (2003) 296
Heikkinen, P., see Enqvist, T. ... 204 (2003) 138
Heiland, W. and A. Robin, The corrugation of the electronic surface of Pt(110) observed by surface channeling ... 203 (2003) 76
Heiland, W., see Robin, A. ... 205 (2003) 719
Heiland, W., see Robin, A. ... 209 (2003) 259
Heinäsmäki, S., see Fritzsche, S. ... 205 (2003) 93
Heinrich, R. and A. Wucher, Projectile size effects on cluster formation in sputtering ... 207 (2003) 136
Heinz, A., see Clark, J. ... 204 (2003) 487
Heinz, A., see Savard, G. ... 204 (2003) 582
Heinz, A.M., see Müller, P. ... 204 (2003) 536
Heinz, S., see Sikler, G. ... 204 (2003) 482
Heinz, S., see Szerypo, J. ... 204 (2003) 512
Heinz, S., see Habs, D. ... 204 (2003) 739
Heise, S., see Golombeck, M.-A. ... 206 (2003) 495
Hellhammer, R., see Stolterfoht, N. ... 203 (2003) 246
Hellström, M., see Geissel, H. ... 204 (2003) 71
Hellström, M., see Scheidenberger, C. ... 204 (2003) 119
Helming, K., see Hammerl, C. ... 206 (2003) 1072
Henderson, D., see Müller, P. ... 204 (2003) 536
Henkelman, G., see Gao, F. ... 202 (2003) 1
Hennebach, M., see Anagnostopoulos, D.F. ... 205 (2003) 9
Hennecart, D., see Buchet-Poulizac, M.C. ... 205 (2003) 106
Hennecart, D., see Laurent, G. ... 205 (2003) 546
Hennet, L., D. Thiaudière, C. Landron, J.-F. Berar, M.-L. Saboungi, G. Matzen and D.L. Price, Anomalous x-ray scattering on molten levitated samples ... 207 (2003) 447
Henning, W.F., Plans for the future facility at GSI ... 204 (2003) 725
Henry, S., see Habs, D. ... 204 (2003) 739

Herfurth, F., see Blaum, K. ... 204 (2003) 478
Herfurth, F., see Sikler, G. ... 204 (2003) 482
Herfurth, F., Segmented linear RFQ traps for nuclear physics ... 204 (2003) 587
Hermanne, A., see Tárkányi, F. ... 207 (2003) 381
Hermanne, A., see Cosentino, L. ... 209 (2003) 340
Hermsdorf, D., see Dörschel, B. ... 207 (2003) 154
Hermsdorf, D., see Oganessian, V.R. ... 208 (2003) 166
Hernández-Mangas, J.M., J. Lázaro, L. Enriquez, L. Bailacuteon, J. Barbolla and M. Jaraíz, Statistical 3D damage accumulation model for ion implant simulators ... 202 (2003) 138
Herrmann, F., see Grambole, D. ... 210 (2003) 526
Hertenberger, R., see Dollinger, G. ... 210 (2003) 6
Hertenberger, R., see Reichart, P. ... 210 (2003) 135
Hervieux, P.-A., L.F. Ruiz, B. Zarour, M.F. Politis, J. Hanssen and F. Martín, Charge transfer, excitation and evaporation in low energy collisions of simple metal clusters and fullerenes with atomic targets ... 205 (2003) 677
Herzberg, R.-D., see Page, R.D. ... 204 (2003) 634
Herzberg, R.-D., see Uusitalo, J. ... 204 (2003) 638
Hessberger, F., see Uusitalo, J. ... 204 (2003) 638
Hibino, Y., see Xu, G.C. ... 206 (2003) 330
Hibino, Y., see Xu, G.C. ... 206 (2003) 362
Hickel, B., see Baldacchino, G. ... 209 (2003) 219
Hida, A., T. Meguro, K. Maeda and Y. Aoyagi, Analysis of surface modifications on graphite induced by slow highly charged ion impact ... 205 (2003) 736
Hida, A., see Koguchi, Y. ... 206 (2003) 202
Hida, A., A. Iwase, Y. Mera, T. Kambara and K. Maeda, STM study of ion tracks created in GaAs by GeV Xe ion irradiation ... 209 (2003) 140
Hida, A., see Meguro, T. ... 209 (2003) 170
Hidaka, T., see Tojo, H. ... 206 (2003) 717
Higashi, Y., see Wang, A. ... 206 (2003) 219
Higuchi, T., K. Yasuda, K. Tanaka, K. Shiiyama and C. Kinoshita, Ion-beam induced defect formation in α-alumina with applied electric field ... 206 (2003) 103
Hijino, M., see Tojo, H. ... 206 (2003) 717
Hilfiker, J., see Woollam, J.A. ... 208 (2003) 35
Hiller, J., see Rehn, L.E. ... 206 (2003) 490
Hinojosa, G., see Schippers, S. ... 205 (2003) 297
Hinojosa, G., see Müller, A. ... 205 (2003) 301
Hirao, T., see Mori, H. ... 206 (2003) 31
Hirao, T., see Laird, J.S. ... 206 (2003) 36
Hirao, T., see Onoda, S. ... 206 (2003) 444
Hirao, T., H. Mori, J.S. Laird, S. Onoda, H. Abe, T. Wakasa and H. Itoh, Study of single-event current pulses induced in SOI diodes by collimated swift heavy-ions micro-beams ... 206 (2003) 457
Hirao, T., see Ohshima, T. ... 206 (2003) 979
Hirao, T., see Ohshima, T. ... 210 (2003) 201
Hirao, T., see Kamiya, T. ... 210 (2003) 206
Hirao, T., H. Mori, J.S. Laird, S. Onoda and H. Itoh, Comparison of the ion induced charge collection in Si epilayer and SOI devices ... 210 (2003) 221
Hirao, T., H. Mori, J.S. Laird, S. Onoda, T. Wakasa, H. Abe and H. Itoh, Studies on single-event phenomena using the heavy-ion microbeam at JAERI ... 210 (2003) 227
Hirao, T., see Onoda, S. ... 210 (2003) 232
Hirao, T., see Laird, J.S. ... 210 (2003) 243
Hiraoka, T., see Nakano, T. ... 210 (2003) 316
Hirata, K., Y. Saitoh, K. Narumi and Y. Kobayashi, Effect of external bias potential on secondary charged emissions from polycarbonate by C_1^+ and C_8^+ bombardments ... 206 (2003) 47
Hirata, Y., LIGA process – micromachining technique using synchrotron radiation lithography – and some industrial applications ... 208 (2003) 21
Hirayama, Y., see Kiefl, R.F. ... 204 (2003) 682
Hirayama, Y., see Levy, C.D.P. ... 204 (2003) 689
Hirose, T., see Karataev, P. ... 201 (2003) 140

Hirose, T., see Karataev, P. ... 201 (2003) 201
Hirotani, N., see Muramoto, T. ... 202 (2003) 289
Hirotsu, Y., see Bae, In.-T. ... 206 (2003) 974
Hirotsu, Y., see Ishimaru, M. ... 206 (2003) 994
Hishita, S., see Sakaguchi, I. ... 206 (2003) 153
Hishita, S., H. Haneda, S.S. Kim and J.H. Moon, Recrystallization of ion-beam amorphized BSCC thin films ... 206 (2003) 171
Hitomi, N., see Wang, A. ... 206 (2003) 219
Hitomi, T., see Nakamura, T. ... 206 (2003) 956
Hitti, B., see Kiefl, R.F. ... 204 (2003) 682
Hitz, D., see Gammino, S. ... 205 (2003) 162
Hitz, D., A. Girard, G. Melin, D. Cormier, J.M. Mathonnet, F. Lansaque, K. Serebrenikov and L.T. Sun, Multiply charged ion production with ECR ion sources: State of the art and prospects ... 205 (2003) 168
Hitz, D., see Bizau, J.M. ... 205 (2003) 290
Hnát, V., see Plaček, V. ... 208 (2003) 448
Hnatowicz, V., see Krása, J. ... 205 (2003) 355
Hnatowicz, V., Role of scission and cross-linking in latent track formation in polymers ... 209 (2003) 145
Hobler, G., see Otto, G. ... 202 (2003) 114
Hobler, G. and G. Otto, Amorphous pocket model for silicon based on molecular dynamics simulations ... 206 (2003) 81
Hoekstra, R. and P. Zeijlmans van Emmichoven, Editorial ... 203 (2003) vii
Hoekstra, R., see Berg, G.P. ... 204 (2003) 532
Hoekstra, R., see Knoop, S. ... 205 (2003) 560
Hoffknecht, A., see Brandau, C. ... 205 (2003) 66
Hoffmann, D.H.H., see Tahir, N.A. ... 204 (2003) 282
Hoffmann, V., see Pešić, Z.D. ... 203 (2003) 96
Hoffmann, V., see Stolterfoht, N. ... 203 (2003) 246
Höfft, O., see Krischok, S. ... 203 (2003) 124
Höfft, O., see Borodin, A. ... 203 (2003) 205
Hofmann, S., see Sikler, G. ... 204 (2003) 482
Hogg, S.M., see Pipeleers, B. ... 206 (2003) 95
Höhne, R., see Spemann, D. ... 210 (2003) 531
Hojou, K., see Haraguchi, M. ... 206 (2003) 313
Hojou, K., see Saito, T. ... 206 (2003) 321
Holland, A., see Ambrosi, R.M. ... 207 (2003) 175
Holm, U., see Bodmann, B. ... 208 (2003) 495
Holt, R.J., see Müller, P. ... 204 (2003) 536
Homewood, K.P., see Gao, Y. ... 206 (2003) 317
Homewood, K.P., see Lourenço, M.A. ... 206 (2003) 436
Homma-Takeda, S., Y. Nishimura, Y. Watanabe, H. Imaseki and M. Yukawa, Elemental imaging of rat epididymis by micro-PIXE analysis ... 210 (2003) 368
Honda, H., see Yamauchi, T. ... 208 (2003) 489
Honda, S., see Purwanto, S. ... 206 (2003) 326
Hopf, T., see Rout, B. ... 210 (2003) 129
Horch, H.H., see Mändl, S. ... 206 (2003) 517
Horibe, H., see Tanaka, T. ... 206 (2003) 817
Horie, K., see Miyatake, H. ... 204 (2003) 746
Horino, Y., see Fukumi, K. ... 206 (2003) 353
Horino, Y., see Heck, C. ... 206 (2003) 601
Horino, Y., see Tojo, H. ... 206 (2003) 717
Horino, Y., see Lee, Y.-Y. ... 206 (2003) 754
Horino, Y., see Angelov, Ch. ... 206 (2003) 907
Horino, Y., see Kinomura, A. ... 210 (2003) 75
Horn, R., see Wendt, K.D.A. ... 204 (2003) 325
Horn, R., see Fedosseev, V.N. ... 204 (2003) 353
Hoshino, M., Y. Kanai, F. Mallet, Y. Nakai, M. Kitajima, H. Tanaka and Y. Yamazaki, Angular differential energy gain measurements of highly charged ion–atom collisions at 100 and 120 eV/q ... 205 (2003) 568
Hoshiya, T., see Shibata, T. ... 206 (2003) 139

Hoshiya, T., see Motohashi, Y. 206 (2003) 144
Hosni, F., see Lau, C. 204 (2003) 246
Hosni, F., see Lau, C. 204 (2003) 257
Hosni, F., see Essabaa, S. 204 (2003) 780
Hossain, S., A.S. Alnaser, A.L. Landers, D.J. Pole, H. Knutson, A. Robison, B. Stamper, N. Stolterfoht and J.A. Tanis, Interference effects in electron emission from H_2 by 3 and 5 MeV H^+ impact 205 (2003) 484
Hoszowska, J., see Rzadkiewicz, J. 205 (2003) 128
Hoszowska, J., see Czarnota, M. 205 (2003) 133
Hotta, K., see Oishi, Y. 210 (2003) 117
Hou, M., see Khrushcheva, O. 202 (2003) 68
Hou, M., see Sun, Y. 209 (2003) 188
Hou, M.D. and S. Klaumünzer, Heavy ion-induced deformation of radiation-amorphized U_3Si 209 (2003) 149
Hou, M.D., see Wang, Z.G. 209 (2003) 200
Hou, M.D., see Zhang, Q.X. 209 (2003) 367
Houdayer, A., see Dennler, G. 208 (2003) 176
Houdayer, S., see Vincent, L. 207 (2003) 339
Hrmo, A., see Vodopianov, A.S. 201 (2003) 266
Hrubesh, L., see Felter, T.E. 207 (2003) 72
Hsu, H.-H., see Talbert, W.L. 204 (2003) 314
Hu, G., see Liu, B. 201 (2003) 520
Hu, L., Z.F. Li, W.S. Lai and B.X. Liu, Physical origin of ion mixing induced amorphization and associated asymmetric growth in the binary metal systems 206 (2003) 127
Huang, H.C., see Xu, Q. 206 (2003) 123
Huang, M., R. Hutton, Y. Zou, K. Ando and H. Oyama, The continuing saga of the Si-like intercombination lines in highly charged ions, Si-like rhodium 205 (2003) 119
Huang, N., see Yang, P. 206 (2003) 721
Huang, N.K., D.Z. Wang, Q. Xiong and B. Yang, XPS study of hydrogen permeation effect on SiC–C films . 207 (2003) 395
Huang, W.X., P. Dendooven, K. Gloos, N. Takahashi, K. Arutyunov, J.P. Pekola and J. Äystö, Transport and extraction of radioactive ions stopped in superfluid helium 204 (2003) 592
Huber, B., see Siegmann, B. 205 (2003) 629
Huber, B., see Werner, U. 205 (2003) 639
Huber, B.A., see Manil, B. 205 (2003) 666
Huber, B.A., see Manil, B. 205 (2003) 684
Huber, G., see Kester, O. 204 (2003) 20
Huber, G., see Fedosseev, V.N. 204 (2003) 353
Huguet, Y., see Gibouin, S. 204 (2003) 240
Huikari, J., see Nieminen, A. 204 (2003) 563
Hüller, W., see Roeckl, E. 204 (2003) 53
Hunter, D., see Engel, S. 204 (2003) 416
Hussein, A., see Engel, S. 204 (2003) 416
Hussein, A., see Wrede, C. 204 (2003) 619
Hussein, A.H., see Gigliotti, D.G. 204 (2003) 671
Husson, X., see Buchet-Poulizac, M.C. 205 (2003) 106
Hustzler, B., see Lugão, A.B. 208 (2003) 252
Hutcheon, D.A., see Engel, S. 204 (2003) 416
Hutchinson, I.B., see Ambrosi, R.M. 207 (2003) 175
Hutchinson, M.H.R., see Tisch, J.W.G. 205 (2003) 310
Hutter, C., see Ressler, J.J. 204 (2003) 141
Hutton, R., Y. Zou, J. Reyna Almandos, C. Biedermann, R. Radtke, A. Greier and R. Neu, EBIT spectroscopy of Pm-like tungsten 205 (2003) 114
Hutton, R., see Huang, M. 205 (2003) 119
Hutton, R., see Morishita, Y. 205 (2003) 758
Huyse, M., see Kester, O. 204 (2003) 20
Huyse, M., see Kudryavtsev, Yu. 204 (2003) 336
Huyse, M., see Köster, U. 204 (2003) 347
Hwang, J.K., see Batchelder, J.C. 204 (2003) 625

Ibrahim, F., see Mirea, M. 201 (2003) 433
Ibrahim, F., see Lau, C. 204 (2003) 246
Ibrahim, F., see Lau, C. 204 (2003) 257
Ibrahim, F., see Essabaa, S. 204 (2003) 780
Ichazo, M.N., see Albano, C. 208 (2003) 485
Ichihashi, T., see Fujita, J. 206 (2003) 472
Ichikawa, S., A. Osa, M. Matsuda, K. Tsukada, M. Asai, Y. Nagame, S.C. Jeong and I. Katayama, Ion source development for the JAERI on-line isotope separator 204 (2003) 372
Ichikawa, S., see Jeong, S.C. 204 (2003) 420
Ichikawa, S., see Miyatake, H. 204 (2003) 746
Ichikawa, T., see Koizumi, H. 206 (2003) 1124
Ichikawa, T., see Koizumi, H. 208 (2003) 161
Ichimura, A., see Ohyama-Yamaguchi, T. 205 (2003) 620
Iefuji, H., see Ohnuki, T. 210 (2003) 378
Ignatova, V., see Chen, Z.Y. 207 (2003) 415
Ignatova, V.A., I.R. Chakarov and I.V. Katardjiev, Non-thermodynamic approach to including bombardment-induced post-cascade redistribution of point defects in dynamic Monte Carlo code 202 (2003) 24
Iida, M., see Sato, K. 208 (2003) 424
Iida, T., F. Sato, T. Tanaka and M. Naito, Development of a compact and precise ion irradiation system 210 (2003) 37
Iida, T., see Sato, F. 210 (2003) 281
Iimura, H., see Miyatake, H. 204 (2003) 746
Ikeda, K., see Abo, S. 210 (2003) 216
Ikeda, M., R. Mitsusue, M. Nakagawa, S. Kondo, M. Imai and N. Imanishi, Behavior of hydrogen implanted into Si-implanted SiO_2 ..... 209 (2003) 154
Ikeda, S., see Sato, Y. 208 (2003) 231
Ikeda, S., see Sato, K. 208 (2003) 424
Ikeda, T., see Iwai, Y. 205 (2003) 762
Ikeda, T., see Nakai, Y. 205 (2003) 784
Ikeda, T., see Kitagawa, T. 206 (2003) 884
Ikeda, T., see Kurooka, S. 206 (2003) 1088
Ikeda, T., see Yamauchi, T. 208 (2003) 489
Ikeguchi, R., see Tsuji, H. 206 (2003) 507
Ikehata, T., K. Shioya, T. Araki, N.Y. Sato, H. Mase and K. Yukimura, Sheath formation and ion flux distribution inside the trench in plasma-based ion implantation 206 (2003) 772
Ikehata, T., K. Shimatsu, N.Y. Sato and H. Mase, Positive pulse bias method in plasma-based ion implantation 206 (2003) 782
Ikehata, T., see Ma, X.X. 206 (2003) 813
Ikenaga, N., see Sakudo, N. 206 (2003) 687
Ikeyama, M., see Miyagawa, Y. 206 (2003) 767
Ikezoe, H., see Miyatake, H. 204 (2003) 746
Ilkaev, R.I., see Rodin, A.M. 204 (2003) 114
Im, S., see Jeon, G.Y. 206 (2003) 409
Im, S., see Park, C.H. 206 (2003) 432
Imada, C., see Ninomiya, S. 209 (2003) 233
Imai, M., see Kawatsura, K. 205 (2003) 528
Imai, M., see Ikeda, M. 209 (2003) 154
Imai, M., see Ninomiya, S. 209 (2003) 233
Imaizumi, M., see Sumita, T. 206 (2003) 448
Imamura, M., see Saito, T. 206 (2003) 321
Imamura, Y., see Saito, Y. 206 (2003) 272
Imanishi, N., see Ikeda, M. 209 (2003) 154
Imanishi, N., see Ninomiya, S. 209 (2003) 233
Imaseki, H., M. Yukawa, F. Watt, T. Ishikawa, H. Iso, T. Hamano, K. Matsumoto and N. Yasuda, The scanning microbeam PIXE analysis facility at NIRS 210 (2003) 42
Imaseki, H., see Yamaguchi, H. 210 (2003) 292
Imaseki, H., see Homma-Takeda, S. 210 (2003) 368
Inagaki, N., Surface modification of ethylene-co-tetrafluoroethylene copolymer (ETFE) by plasma 208 (2003) 277

İnam, R., T. Çaykara and Ö. Kantoğlu, Polarographic determination of uranyl adsorption onto poly(acrylamide-g-ethylenediaminetetraacetic acid) hydrogels in the presence of cadmium and lead 208 (2003) 400
Incerti, S., Ph. Barberet, B. Courtois, C. Michelet-Habchi and Ph. Moretto, Simulation of ion propagation in the microbeam line of CENBG using GEANT4 ..... 210 (2003) 92
Indelicato, P., see Anagnostopoulos, D.F. 205 (2003) 9
Indelicato, P., see Beier, T. 205 (2003) 15
Indelicato, P., see Yerokhin, V.A. 205 (2003) 47
Indelicato, P., see Santos, J.P. 205 (2003) 102
Indelicato, P., see Adoui, L. 205 (2003) 341
Inomata, T., see Yasuda, K. 210 (2003) 27
Inoue, H., see Oikawa, M. 210 (2003) 54
Inoue, M., see Kitamura, S. 206 (2003) 548
Insepov, Z., L.P. Allen, C. Santeufemio, K.S. Jones and I. Yamada, Computer modeling and electron microscopy of silicon surfaces irradiated by cluster ion impacts 202 (2003) 261
Insepov, Z. and I. Yamada, Direct simulation Monte Carlo method for gas cluster ion beam technology 202 (2003) 283
Insepov, Z., L.P. Allen, C. Santeufemio, K.S. Jones and I. Yamada, Crater formation and sputtering by cluster impacts 206 (2003) 846
Ionescu, D.C., see Stöhlker, Th. 205 (2003) 156
Irzhak, A.V., see Gerasimenko, N.N. 206 (2003) 644
Ishibori, I., see Fukuda, M. 210 (2003) 33
Ishida, M., see Fujita, J. 206 (2003) 472
Ishida, R., see Kusakabe, T. 205 (2003) 600
Ishida, Y., see Koizumi, M. 204 (2003) 359
Ishida, Y., see Wada, M. 204 (2003) 570
Ishigami, R., see Sasase, M. 209 (2003) 179
Ishigami, R., see Ito, Y. 209 (2003) 362
Ishigami, R., see Yasuda, K. 210 (2003) 27
Ishihara, M., see Shibata, T. 206 (2003) 139
Ishihara, M., see Motohashi, Y. 206 (2003) 144
Ishii, K., see Morishita, Y. 205 (2003) 758
Ishii, K., Y. Yamada, Y. Hase, N. Shikazono and A. Tanaka, RAPD analysis of mutants obtained by ion beam irradiation to hinoki cypress shoot primordia 206 (2003) 570
Ishii, K., see Matsuyama, S. 210 (2003) 59
Ishii, K., see Satoh, T. 210 (2003) 113
Ishii, K., see Oishi, Y. 210 (2003) 117
Ishii, K., see Harada, S. 210 (2003) 383
Ishii, S., see Sasa, K. 210 (2003) 48
Ishii, S., see Furuno, K. 210 (2003) 459
Ishii, S., see Kurosawa, M. 210 (2003) 464
Ishii, T., see Miyatake, H. 204 (2003) 746
Ishii, Y., A. Isoya and T. Kojima, Progress in submicron width ion beam system using double acceleration lenses 210 (2003) 70
Ishikawa, H., see Wang, Q. 206 (2003) 118
Ishikawa, J., see Tsuji, H. 206 (2003) 249
Ishikawa, J., see Tsuji, H. 206 (2003) 507
Ishikawa, J., see Tsuji, H. 206 (2003) 615
Ishikawa, J., see Arai, N. 206 (2003) 629
Ishikawa, N., see Ono, F. 206 (2003) 295
Ishikawa, N., see Iwase, A. 209 (2003) 323
Ishikawa, T., see Imaseki, H. 210 (2003) 42
Ishikawa, T., see Yamaguchi, H. 210 (2003) 292
Ishimaru, M., see Bae, In.-T. 206 (2003) 974
Ishimaru, M., M. Naito, Y. Hirotsu and K.E. Sickafus, Amorphous structures of silicon carbonitride formed by high-dose nitrogen ion implantation into silicon carbide 206 (2003) 994
Ishimaru, Y., see Date, H. 207 (2003) 373
Ishioka, K., see Kitajima, M. 206 (2003) 99
Ishioka, N.S., see Watanabe, S. 206 (2003) 399
Ishitani, T., see Ohya, K. 202 (2003) 305

Ishiyama, H., see Jeong, S.C. ... 204 (2003) 420
Ishiyama, H., see Miyatake, H. ... 204 (2003) 746
Ishizaki, N., see Miyatake, H. ... 204 (2003) 746
Iso, H., see Imaseki, H. ... 210 (2003) 42
Isogawa, S., see Tojo, H. ... 206 (2003) 717
ISOLDE Collaboration, see Köster, U. ... 204 (2003) 343
ISOLDE Collaboration, see Köster, U. ... 204 (2003) 347
Isoya, A., see Ishii, Y. ... 210 (2003) 70
Isoya, J., T. Ohshima, A. Ohi, N. Morishita and H. Itoh, ESR characterization of activation of implanted phosphorus ions in silicon carbide ... 206 (2003) 965
Ispirian, K.A., see Elbakian, S.S. ... 201 (2003) 44
Ispirian, K.A., see Gazazian, E.D. ... 201 (2003) 84
Isshiki, H., see Fukudome, T. ... 206 (2003) 287
Isshiki, M., see Lim, J.-W. ... 206 (2003) 371
Itabasi, K., see Muramoto, T. ... 202 (2003) 289
Itkis, M.G., see Oganessian, Yu.Ts. ... 204 (2003) 606
Ito, A., see Lee, I.-S. ... 206 (2003) 522
Ito, N., see Wada, S. ... 206 (2003) 553
Ito, T., see Azuma, T. ... 205 (2003) 779
Ito, Y., see Takahiro, K. ... 206 (2003) 639
Ito, Y., see Sasase, M. ... 209 (2003) 179
Ito, Y., K. Yasuda, M. Sasase, R. Ishigami, S. Hatori, K. Ohashi and S. Tanaka, Radiation effects of 200 MeV proton beams on Nd–Fe–B magnets ... 209 (2003) 362
Ito, Y., see Yasuda, K. ... 210 (2003) 27
Itoh, A., see Yogo, A. ... 203 (2003) 141
Itoh, H., see Mori, H. ... 206 (2003) 31
Itoh, H., see Laird, J.S. ... 206 (2003) 36
Itoh, H., see Abe, H. ... 206 (2003) 224
Itoh, H., see Choi, Y. ... 206 (2003) 241
Itoh, H., see Yamaki, T. ... 206 (2003) 254
Itoh, H., see Onoda, S. ... 206 (2003) 444
Itoh, H., see Sumita, T. ... 206 (2003) 448
Itoh, H., see Hirao, T. ... 206 (2003) 457
Itoh, H., see Isoya, J. ... 206 (2003) 965
Itoh, H., see Ohshima, T. ... 206 (2003) 979
Itoh, H., see Nakanishi, Y. ... 206 (2003) 1033
Itoh, H., see Nishijima, T. ... 210 (2003) 196
Itoh, H., see Ohshima, T. ... 210 (2003) 201
Itoh, H., see Hirao, T. ... 210 (2003) 221
Itoh, H., see Onoda, S. ... 210 (2003) 232
Itoh, H., see Hirao, T. ... 210 (2003) 227
Itoh, H., see Laird, J.S. ... 210 (2003) 243
Itoh, H., see Lee, K.K. ... 210 (2003) 489
Itoh, K., see Kusakabe, T. ... 205 (2003) 600
Itoh, M., see Matsunami, N. ... 206 (2003) 282
Itou, M., M. Kasai, T. Kimura, J. Yanagisawa, F. Wakaya, Y. Yuba and K. Gamo, Maskless Mn implantation in GaAs using focused Mn ion beam ... 206 (2003) 1013
Iura, S., see Tojo, H. ... 206 (2003) 717
Ivanian, M.I., see Gazazian, E.D. ... 201 (2003) 84
Ivanov, V.S., see Andrighetto, A. ... 204 (2003) 267
Ivanov, V.S., see Panteleev, V.N. ... 204 (2003) 382
Ivanshin, Y.I., see Vodopianov, A.S. ... 201 (2003) 266
Iwai, Y., see Oshima, N. ... 205 (2003) 178
Iwai, Y., Y. Kanai, Y. Nakai, T. Ikeda, H. Oyama, K. Ando, H. Masuda, K. Nishio, M. Nakao, H.A. Torii, K. Komaki and Y. Yamazaki, High-resolution soft X-ray spectroscopy of slow highly charged ions transmitted through a microcapillary target ... 205 (2003) 762
Iwaki, M., see Kobayashi, T. ... 206 (2003) 184

Iwaki, M., see Takahiro, K. 206 (2003) 206
Iwaki, M., see Nakao, A. 206 (2003) 211
Iwaki, M., see Xu, G.C. 206 (2003) 330
Iwaki, M., see Yokoyama, Y. 206 (2003) 512
Iwaki, M., see Yotoriyama, T. 206 (2003) 527
Iwaki, M., see Kurotobi, K. 206 (2003) 532
Iwaki, M., see Suzuki, Y. 206 (2003) 538
Iwaki, M., see Okuyama, Y. 206 (2003) 543
Iwaki, M., see Watanabe, H. 206 (2003) 1106
Iwaki, M., see Kobayashi, T. 206 (2003) 1110
Iwamatsu, T., see Abo, S. 210 (2003) 216
Iwami, Y., see Yamamoto, H. 210 (2003) 388
Iwamoto, A., see Miyatake, H. 204 (2003) 746
Iwano, H., see Yoshioka, T. 207 (2003) 323
Iwasaki, K., see Takayama, H. 210 (2003) 108
Iwase, A., see Ono, F. 206 (2003) 295
Iwase, A., see Hida, A. 209 (2003) 140
Iwase, A., see Chimi, Y. 209 (2003) 159
Iwase, A., see Matsunami, N. 209 (2003) 288
Iwase, A., Y. Hamatani, Y. Mukumoto, N. Ishikawa, Y. Chimi, T. Kambara, C. Müller, R. Neumann and F. Ono, Anomalous shift of Curie temperature in iron–nickel Invar alloys by high-energy heavy ion irradiation 209 (2003) 323
Iwata, T., see Chimi, Y. 209 (2003) 159
Iwatani, M., see Nakagawa, S.T. 202 (2003) 149
Iwazaki, W., see Kudo, H. 207 (2003) 283
Izukawa, D., see Oishi, Y. 210 (2003) 117
Izukawa, M., see Tsuji, H. 206 (2003) 507
Izumi, H., see Kiefl, R.F. 204 (2003) 682
Izumi, H., see Levy, C.D.P. 204 (2003) 689

Jackson, K.P., see Melconian, D. 204 (2003) 540
Jacobi, J., see Shi, W. 205 (2003) 201
Jacobi, J., H. Knopp, S. Schippers, W. Shi and A. Müller, Strong contributions of indirect processes to the electron-impact ionization cross section of Sc^+ ions 205 (2003) 410
Jacobi, J., see Knopp, H. 205 (2003) 433
Jacobs, D.C., see Qin, X. 203 (2003) 130
Jacobs, D.C., see Maazouz, P.L. 203 (2003) 225
Jacquemard, B., see Essabaa, S. 204 (2003) 780
Jacquet, E., see Buchet-Poulizac, M.C. 205 (2003) 106
Jacquet, E., see Khalfaoui, N. 209 (2003) 165
Jacquot, B., Time-of-flight isotope separator for a second-generation ISOL facility 204 (2003) 785
Jäger, H.U., see Belov, A.Yu. 202 (2003) 242
Jagielski, J., see Piatkowska, A. 206 (2003) 1052
Jagielski, J., A. Piatkowska, Z. Librant, P. Aubert, C. Legrand-Buscema and S. Coindeau, Friction properties of ion implanted Al_2O_3 ceramic 206 (2003) 1097
Jahan, M.S., see Naheed, N. 208 (2003) 204
Jakšić, M., Z. Medunić and N. Skukan, On the use of pulsed microbeam in IBIC 210 (2003) 176
Jakšić, M., see Medunić, Z. 210 (2003) 237
Jakob, B., see Taucher-Scholz, G. 209 (2003) 270
Jalowy, T., see Neugebauer, R. 209 (2003) 62
Jamieson, D.N., see van den Putte, M.J.J. 210 (2003) 21
Jamieson, D.N., see Rout, B. 210 (2003) 129
Jamieson, D.N., see Hearne, S.M. 210 (2003) 181
Jamieson, D.N., see Yang, C. 210 (2003) 186
Jamieson, D.N., see Nishijima, T. 210 (2003) 196
Jamieson, D.N., see Lee, K.K. 210 (2003) 489
Janik, I., see Rosiak, J.M. 208 (2003) 325

Janik, I., E. Kasprzak, A. Al-Zier and J.M. Rosiak, Radiation crosslinking and scission parameters for poly(vinyl methyl ether) in aqueous solution ... 208 (2003) 374
Janovský, I., see Naumov, S. ... 208 (2003) 385
Janssens, R.V., see Müller, P. ... 204 (2003) 536
Jaouen, C., see Girard, J.C. ... 209 (2003) 85
Jaouen, M., see Cabioc'h, T. ... 207 (2003) 409
Jardin, P., see Gibouin, S. ... 204 (2003) 240
Jardin, P., W. Farabolini, G. Gaubert, J.Y. Pacquet, T. Drobert, J. Cornell, C. Barue, C. Canet, M. Dupuis, J.-L. Flambard, N. Lecesne, P. Leherissier, F. Lemagnen and R. Leroy, Optimization of ECR singly-charged ion sources for the radioactive ion beam production ... 204 (2003) 377
Jardin, P., see Laurent, G. ... 205 (2003) 546
Jaraíz, M., see Hernández-Mangas, J.M. ... 202 (2003) 138
Jaskóła, M., see Banaś, D. ... 205 (2003) 139
Jaskóła, M., see Majewska, U. ... 205 (2003) 799
Jeffree, R.A., see Orlic, I. ... 210 (2003) 330
Jejcic, A., see Artru, X. ... 201 (2003) 243
Jenkins, D.G., see Page, R.D. ... 204 (2003) 634
Jensen, J., H. Zettergren, A. Fardi, H.T. Schmidt and H. Cederquist, Energy releases in the fission of multiply charged C_{60} ions ... 205 (2003) 643
Jensen, J., see Robin, A. ... 209 (2003) 259
Jeon, G.Y., J.S. Kim, C.N. Whang, S. Im, J.-H. Song, J.H. Song, W.K. Choi and H.K. Kim, Formation and characterizations of ultra-shallow p^+–n junctions using $B_{10}H_{14}$ ion implantation ... 206 (2003) 409
Jeong, S.C., see Ichikawa, S. ... 204 (2003) 372
Jeong, S.C., M. Oyaizu, E. Tojyo, H. Kawakami, H. Ishiyama, H. Miyatake, K. Enomoto, Y. Watanabe, I. Katayama, T. Nomura, M. Matsuda, A. Osa and S. Ichikawa, The development of an ECR charge breeder for KEK-JAERI joint RNB project ... 204 (2003) 420
Jeong, S.C., see Miyatake, H. ... 204 (2003) 746
Jeppesen, H., see Bergmann, U.C. ... 204 (2003) 220
Jequier, S., see Gutierrez, F.A. ... 203 (2003) 16
Jequier, S., H. Jouin, C. Harel and F.A. Gutierrez, Numerical simulations of electron capture in low energy $He^+(1s)$ on Al(111) collisions ... 205 (2003) 709
Jewett, C.C., see Engel, S. ... 204 (2003) 416
Jeynes, C., see Webb, R.P. ... 202 (2003) 143
Jiang, C.-L., see Müller, P. ... 204 (2003) 536
Jiang, D., see Li, X. ... 210 (2003) 412
Jiang, W., see Weber, W.J. ... 206 (2003) 1
Jiang, W., see Thevuthasan, S. ... 206 (2003) 162
Jiang, W., W.J. Weber and C.M. Wang, Ion-beam-irradiation induced defects in gallium nitride ... 206 (2003) 1037
Jiang, W., W.J. Weber, S. Thevuthasan and L.A. Boatner, Effect of ion irradiation in cadmium niobate pyrochlores ... 207 (2003) 85
Jiang, W., W.J. Weber, Y. Zhang, S. Thevuthasan and V. Shutthanandan, Ion beam analysis of irradiation effects in 6H–SiC ... 207 (2003) 92
Jiang, W., V. Shutthanandan, S. Thevuthasan, D.E. McCready and W.J. Weber, Oxygen analysis using energetic ion beams ... 207 (2003) 453
Jin, W.G., see Koizumi, M. ... 204 (2003) 359
Jin, Y., see Sun, Y. ... 209 (2003) 188
Jin, Y.F., see Wang, Z.G. ... 209 (2003) 200
Jin, Y.F., see Zhang, Q.X. ... 209 (2003) 367
Jipa, S., see Grosu, E. ... 208 (2003) 220
John Charles, M., see Bhuloka Reddy, S. ... 207 (2003) 345
Johnson, C.M., F.D. Wall and J.C. Barbour, Using ion implantation to study localized corrosion of Al ... 206 (2003) 1062
Johnson, P.B., V.J. Kennedy, A. Markwitz, C.R. Varoy, N. Dytlewski and K.T. Short, Uptake of light elements of nanoporous layers formed by helium ion implantation ... 206 (2003) 1056
Johnson, P.B., see Kennedy, V.J. ... 210 (2003) 543
Joinet, A., see Gibouin, S. ... 204 (2003) 240
Joinet, A., see Lau, C. ... 204 (2003) 257
Joinet, A., see Peräjärvi, K. ... 204 (2003) 272

Joinet, A., see Köster, U. 204 (2003) 303
Joinet, A., see Köster, U. 204 (2003) 347
Jokinen, A., M. Lindroos, E. Molin, M. Petersson and The ISOLDE Collaboration, RFQ-cooler for low-energy radioactive ions at ISOLDE 204 (2003) 86
Jokinen, A., see Kolhinen, V.S. 204 (2003) 502
Jokinen, A., see Nieminen, A. 204 (2003) 563
Jones, G.D., see Page, R.D. 204 (2003) 634
Jones, K.S., see Insepov, Z. 202 (2003) 261
Jones, K.S., see Insepov, Z. 206 (2003) 846
Jones, P., see Page, R.D. 204 (2003) 634
Jones, P., see Uusitalo, J. 204 (2003) 638
Jonson, B., see Kester, O. 204 (2003) 20
Jonson, B., see Geissel, H. 204 (2003) 71
Jonson, B., see Wolf, B.H. 204 (2003) 428
Jónsson, H., see Gao, F. 202 (2003) 1
Jonsson, O., see Lettry, J. 204 (2003) 251
Jonsson, O., see Lettry, J. 204 (2003) 363
Jonsson, O.C., see Bergmann, U.C. 204 (2003) 220
Jonsson, O.C., see Köster, U. 204 (2003) 303
Jonsson, O.C., see Köster, U. 204 (2003) 343
Jonsson, O.C., see Köster, U. 204 (2003) 347
Jørgensen, S., see Marstein, E.S. 207 (2003) 424
Joss, D.T., see Page, R.D. 204 (2003) 634
Jouin, H., see Gutierrez, F.A. 203 (2003) 16
Jouin, H., see Jequier, S. 205 (2003) 709
Juaristi, J.I., see Cernusca, S. 203 (2003) 1
Juaristi, J.I., see Alducin, M. 203 (2003) 83
Julin, R., see Page, R.D. 204 (2003) 634
Julin, R., see Uusitalo, J. 204 (2003) 638
Jungmann, K., see Berg, G.P. 204 (2003) 532
Jungmann, K., see Stöhlker, Th. 205 (2003) 156
Jungwirth, K., see Krása, J. 205 (2003) 355
Junquera, T., see Essabaa, S. 204 (2003) 780
Juutinen, S., see Uusitalo, J. 204 (2003) 638

Kadem, F., see Belgaid, M. 201 (2003) 545
Kadhane, U., Y.P. Singh, D. Misra and L.C. Tribedi, Effect of collective response on the X-ray emission due to electron capture in high energy bare ion collisions with fullerenes 205 (2003) 661
Kadlubowski, S., see Rosiak, J.M. 208 (2003) 325
Kadono, K., see Fukumi, K. 206 (2003) 353
Kagawa, T., see Moribayashi, K. 205 (2003) 334
Kagawa, T., see Sato, F. 210 (2003) 281
Kageyama, H., see Fukumi, K. 206 (2003) 353
Kageyama, Y., see Sato, Y. 201 (2003) 571
Kahn, S.M., see Beiersdorfer, P. 205 (2003) 173
Kaïtasov, O., see Vincent, L. 207 (2003) 339
Kaito, T., see Fujita, J. 206 (2003) 472
Kakihara, K., see Okuno, H. 201 (2003) 259
Kakinoki, R., see Tsuji, H. 206 (2003) 507
Kakiuchi, H. and T. Terai, Preferential sputtering from the surface of amorphous carbon nitride (a-C:N) thin films upon ion implantation 206 (2003) 27
Kakiuchi, H. and T. Terai, Effects of ion implantation on various properties of amorphous carbon nitride (a-C:N) thin films 206 (2003) 237
Kalantar, D., see Bringa, E.M. 202 (2003) 56
Kalimov, A., see Winkler, M. 204 (2003) 454
Kalimov, A.G., see Oganessian, Yu.Ts. 204 (2003) 606
Kalinin, B.N., see Aleinik, A.N. 201 (2003) 34

Kalinin, B.N., see Adischev, Y.N. ... 201 (2003) 114
Kalinin, B.N., see Aleinik, A.N. ... 201 (2003) 191
Kalinin, B.N., see Bogomazova, E.A. ... 201 (2003) 276
Kamarou, A., see Wesch, W. ... 206 (2003) 1018
Kamarou, A., see Wendler, E. ... 206 (2003) 1028
Kambara, T., see Wada, M. ... 204 (2003) 570
Kambara, T., see Nakai, Y. ... 205 (2003) 784
Kambara, T., see Ono, F. ... 206 (2003) 295
Kambara, T., see Hida, A. ... 209 (2003) 140
Kambara, T., see Iwase, A. ... 209 (2003) 323
Kamber, E.Y., R. Ali and A.A. Hasan, State-selective single-electron capture in Ne^{4+}–He collisions ... 205 (2003) 577
Kamber, E.Y., see Abu-Haija, O. ... 205 (2003) 634
Kamila, J., B. Satpati, D.K. Goswami, M. Rundhe, B.N. Dev and P.V. Satyam, Low current MeV Au^{2+} ion-induced amorphization in silicon: Rutherford backscattering spectrometry and transmission electron microscopy study ... 207 (2003) 291
Kaminaka, A., see Fukudome, T. ... 206 (2003) 287
Kaminski, A., see Bisello, D. ... 210 (2003) 142
Kamio, M., see Suzuki, Y. ... 206 (2003) 538
Kamitani, T., see Okuno, H. ... 201 (2003) 259
Kamiya, T., see Ohshima, T. ... 206 (2003) 979
Kamiya, T., see Fukuda, M. ... 210 (2003) 33
Kamiya, T., see Oikawa, M. ... 210 (2003) 54
Kamiya, T., see Matsuyama, S. ... 210 (2003) 59
Kamiya, T., see Satoh, T. ... 210 (2003) 113
Kamiya, T., see Oishi, Y. ... 210 (2003) 117
Kamiya, T., see Ohshima, T. ... 210 (2003) 201
Kamiya, T., M. Oikawa, T. Ohshima, T. Hirao, K.K. Lee, S. Onoda and J.S. Laird, Observation of single-ion induced charge collection in diode by a heavy ion microbeam system ... 210 (2003) 206
Kamiya, T., see Hattori, M. ... 210 (2003) 272
Kamiya, T., see Souno, T. ... 210 (2003) 277
Kamiya, T., see Ohnuki, T. ... 210 (2003) 378
Kamiya, T., see Harada, S. ... 210 (2003) 383
Kamiya, T., see Yamamoto, H. ... 210 (2003) 388
Kamiya, T., see Ohnuki, T. ... 210 (2003) 407
Kamiya, T., see Lee, K.K. ... 210 (2003) 489
Kamiya, T., see Kozai, N. ... 210 (2003) 513
Kanai, T., see Nakano, T. ... 210 (2003) 316
Kanai, Y., see Wada, M. ... 204 (2003) 570
Kanai, Y., see Endo, A. ... 205 (2003) 187
Kanai, Y., see Hoshino, M. ... 205 (2003) 568
Kanai, Y., see Morishita, Y. ... 205 (2003) 758
Kanai, Y., see Iwai, Y. ... 205 (2003) 762
Kanai, Y., see Nakai, Y. ... 205 (2003) 784
Kanayama, T., see Hayashi, K. ... 206 (2003) 403
Kanbe, H., see Oka, T. ... 208 (2003) 181
Kanda, K., Y. Shimizugawa, Y. Haruyama, I. Yamada, S. Matsui, T. Kitagawa, H. Tsubakino and T. Gejo, NEXAFS study on substrate temperature dependence of DLC films formed by Ar cluster ion beam assisted deposition ... 206 (2003) 880
Kanda, K., see Kitagawa, T. ... 206 (2003) 884
Kanda, S., see Miyatake, H. ... 204 (2003) 746
Kandri, S., see Gibouin, S. ... 204 (2003) 240
Kandri-Rody, S., see Mirea, M. ... 201 (2003) 433
Kanekatsu, R., see Kiguchi, K. ... 210 (2003) 312
Kaneyasu, T., T. Azuma, M. Ehrich, M. Yoshino and K. Okuno, State-selective scattering angular dependent fragmentation of N_2 by slow Kr^{8+} ion impact ... 205 (2003) 624
Kang, H.-S., see He, W.-H. ... 201 (2003) 449
Kanjilal, D., see Senthil Kumar, M. ... 207 (2003) 308

Kanno, S., see Mukaigawa, S. 206 (2003) 777
Kanter, E., see Stöhlker, Th. 205 (2003) 210
Kantoğlu, Ö., see Özdemir, S. 208 (2003) 395
Kantoğlu, Ö., see İnam, R. 208 (2003) 400
Kantoğlu, Ö., see Şen, M. 208 (2003) 480
Kaplin, V.A., see Vodopianov, A.S. 201 (2003) 266
Kaplin, V.V., see Adischev, Y.N. 201 (2003) 114
Karakash, A.I., see Vodopianov, A.S. 201 (2003) 266
Karamian, S., see Schubert, M. 209 (2003) 224
Karataev, P., G. Naumenko and A. Potylitsyn, Quasimonochromatic resonant diffraction radiation as a possible tool for non-invasive beam diagnostics 201 (2003) 133
Karataev, P., S. Araki, R. Hamatsu, H. Hayano, T. Hirose, T. Muto, G. Naumenko, A. Potylitsyn and J. Urakawa, Status of optical diffraction radiation experiment at KEK-ATF extraction line 201 (2003) 140
Karataev, P., S. Araki, R. Hamatsu, H. Hayano, T. Hirose, T. Muto, G. Naumenko, A. Potylitsyn and J. Urakawa, Grating optical diffraction radiation – Promising technique for non-invasive beam diagnostics . 201 (2003) 201
Karpuškienė, R., see Bogdanovich, P. 205 (2003) 70
Karpuzov, D.S., see Tolstogouzov, A. 203 (2003) 198
Kasai, H., see Tojo, H. 206 (2003) 717
Kasai, M., see Itou, M. 206 (2003) 1013
Kaschieva, S., S.N. Dmitriev and Ch. Angelov, Electron and γ-irradiation of ion implanted MOS structures with different oxide thickness 206 (2003) 452
Kashiwazaki, H., see Kurosawa, M. 210 (2003) 468
Kashkovsky, V.V., see Bespalov, V.I. 201 (2003) 292
Kasprzak, E., see Janik, I. 208 (2003) 374
Kasukabe, Y., Z.L. Dizard, Y. Fujino, H. Tani, M. Osaka, Y. Yamada and H. Abe, In situ observation of formation processes of titanium compound thin films due to ion implantation in a transmission electron microscope 206 (2003) 390
Kasuya, T., see Yokota, K. 206 (2003) 386
Kasuya, T., see Wada, M. 206 (2003) 557
Katano, Y., see Nakazawa, T. 206 (2003) 166
Katardjiev, I.V., see Ignatova, V.A. 202 (2003) 24
Katayama, I., see Ichikawa, S. 204 (2003) 372
Katayama, I., see Jeong, S.C. 204 (2003) 420
Katayama, I., see Wada, M. 204 (2003) 570
Katayama, I., see Nörtershäuser, W. 204 (2003) 644
Katayama, I., see Miyatake, H. 204 (2003) 746
Kato, D., see Nakamura, N. 205 (2003) 57
Kato, M. and R. Souda, Inelastic energy loss of low energy proton colliding with cryogenic crystals of Ar, Kr and Xe 203 (2003) 89
Kato, T., see Dong, C.Z. 205 (2003) 87
Kato, T., see Kurosawa, M. 210 (2003) 464
Kato, Y., see Doyama, M. 202 (2003) 64
Katoh, K., see Oishi, Y. 210 (2003) 117
Katoh, T., see Sato, Y. 208 (2003) 231
Katoh, Y., see Doyle, J.P. 206 (2003) 467
Katsuragawa, H., see Koizumi, M. 204 (2003) 359
Kawanowa, H., M. Kondo, K. Hanatani, Y. Gotoh and R. Souda, Electron stimulated desorption of cations from C_6H_6 and C_6H_{12} molecules adsorbed on Pt(111) and Ar spacer layer 203 (2003) 178
Kawakami, H., see Jeong, S.C. 204 (2003) 420
Kawakami, H., see Wada, M. 204 (2003) 570
Kawakami, H., see Miyatake, H. 204 (2003) 746
Kawakami, H., see Okuyama, Y. 206 (2003) 543
Kawasuso, A., see Yamaki, T. 206 (2003) 254
Kawatsura, K., K. Takahiro, M. Imai, M. Sataka, K. Komaki and H. Shibata, Ejected electron spectra from highly excited states in high-energy collisions of O^{q+} with He 205 (2003) 528
Kawatsura, K., see Ookawa, R. 206 (2003) 175
Kawatsura, K., see Takahiro, K. 206 (2003) 206

Kawatsura, K., see Takahiro, K. ... 206 (2003) 639
Kaza, E., see Scheidenberger, C. ... 204 (2003) 119
Kazarinov, N., see Alexandrov, V. ... 205 (2003) 220
Kearns, D.M., see McCullough, R.W. ... 205 (2003) 581
Keenan, A., see Uusitalo, J. ... 204 (2003) 638
Keinonen, J., see Nord, J. ... 202 (2003) 93
Keinonen, J., see Peltola, J. ... 202 (2003) 132
Keinonen, J., see Krasheninnikov, A.V. ... 202 (2003) 224
Keinonen, J., see Dhar, S. ... 205 (2003) 741
Keinonen, J., see Pomoell, J. ... 206 (2003) 18
Keinonen, J., see Peltola, J. ... 206 (2003) 61
Keinonen, J., see Frantz, J. ... 206 (2003) 66
Keinonen, J., see Nordlund, K. ... 206 (2003) 189
Kellerbauer, A., see Blaum, K. ... 204 (2003) 478
Kelley, R.L., see Beiersdorfer, P. ... 205 (2003) 173
Kellock, A.J., see García-Blanco, S. ... 206 (2003) 440
Kelly, M.P., see Ostroumov, P.N. ... 204 (2003) 433
Kempter, V., see Krischok, S. ... 203 (2003) 124
Kempter, V., see Borodin, A. ... 203 (2003) 205
Kendziorra, E., see Ambrosi, R.M. ... 207 (2003) 175
Kenjo, A., see Murakami, Y. ... 206 (2003) 304
Kenjo, A., see Sadoh, T. ... 206 (2003) 478
Kennedy, V.J., see Markwitz, A. ... 206 (2003) 179
Kennedy, V.J., see Johnson, P.B. ... 206 (2003) 1056
Kennedy, V.J., P.B. Johnson, A. Markwitz, C.R. Varoy and K.T. Short, Microprobe analysis of light elements in nanoporous surfaces produced by helium ion implantation ... 210 (2003) 543
Kenny, S.D., see Ramasawmy, D. ... 202 (2003) 175
Kenny, S.D., see Mulliah, D. ... 202 (2003) 294
Kentsch, U., S. Landgraf, M. Schmidt, G. Zschornack, F. Grossmann, V.P. Ovsyannikov and F. Ullmann, X-ray spectroscopy and ion extraction at the Dresden EBIT ... 205 (2003) 260
Kentsch, U., G. Zschornack, F. Grossmann, V.P. Ovsyannikov and F. Ullmann, Dresden EBIT: Trap properties and ion production studied by X-ray spectroscopy of helium-like argon ... 205 (2003) 266
Keppler, P., see Artru, X. ... 201 (2003) 243
Kereselidze, T.M., see Defrance, P. ... 205 (2003) 405
Kern, P., see Golanski, A. ... 206 (2003) 731
Kestel, B.J., see Rehn, L.E. ... 206 (2003) 490
Kester, O., T. Sieber, S. Emhofer, F. Ames, K. Reisinger, P. Reiter, P.G. Thirolf, R. Lutter, D. Habs, B.H. Wolf, G. Huber, P. Schmidt, A.N. Ostrowski, R. von Hahn, R. Repnow, J. Fitting, M. Lauer, H. Scheit, D. Schwalm, H. Podlech, A. Schempp, U. Ratzinger, O. Forstner, F. Wenander, J. Cederkäll, T. Nilsson, M. Lindroos, H. Fynbo, S. Franchoo, U. Bergmann, M. Oinonen, J. Äystö, P. Van Den Bergh, P. Van Duppen, M. Huyse, N. Warr, D. Weisshaar, J. Eberth, B. Jonson, G. Nyman, M. Pantea, H. Simon, G. Shrieder, A. Richter, O. Tengblad, T. Davinson, P.J. Woods, G. Bollen, L. Weissmann, L. Liljeby, K.G. Rensfelt and the ISOLDE collaboration, Accelerated radioactive beams from REX-ISOLDE ... 204 (2003) 20
Kester, O., see Habs, D. ... 204 (2003) 739
Kettler, J., see Aharonian, F.A. ... 201 (2003) 217
Kettunen, H., see Enqvist, T. ... 204 (2003) 138
Kettunen, H., see Page, R.D. ... 204 (2003) 634
Kettunen, H., see Uusitalo, J. ... 204 (2003) 638
Khabarov, M.V., see Oganessian, Yu.Ts. ... 204 (2003) 606
Khachatryan, H.F., see Grigoryan, L.Sh. ... 201 (2003) 25
Khaibullin, I.B., see Khaibullin, R.I. ... 206 (2003) 277
Khaibullin, I.B., see Bayazitov, R.M. ... 206 (2003) 984
Khaibullin, R.I., O.N. Lopatin, F.G. Vagizov, V.V. Bazarov, A.I. Bakhtin, I.B. Khaibullin and B. Aktas, Coloration of natural beryl by iron ion implantation ... 206 (2003) 277
Khaibullin, R.I., B.Z. Rameev, V.N. Popok, E.P. Zheglov, A.V. Kondyurin, V.A. Zhikharev and B. Aktas, An influence of the viscosity of polymer substrate on ion beam synthesis of iron granular films ... 206 (2003) 1115
Khakberdiev, I., see Adischev, Y.N. ... 201 (2003) 300

Khalfaoui, N., C.C. Rotaru, S. Bouffard, E. Jacquet, H. Lebius and M. Toulemonde, Study of swift heavy ion tracks on crystalline quartz surfaces . . . 209 (2003) 165
Khalfaoui, N., M. Beuve, S. Bouffard, M. Caron, H. Rothard, S. Schlutig, J.P. Stoquert and M. Toulemonde, Neutral atom sputtering yields from $Gd_3Ga_5O_{12}$ and $Y_3Fe_5O_{12}$ garnets: Observation of a velocity effect . . 209 (2003) 304
Khambadkone, A., see Zmeck, M. . . . 210 (2003) 164
Khan, S.A., see Diwan, P.K. . . . 201 (2003) 389
Khodja, H., see Daudin, L. . . . 210 (2003) 153
Khodja, H., L. Avoscan, M. Carriere, F. Carrot and B. Gouget, Investigation of cadmium toxicity on renal epithelial cells using nuclear microprobe analysis . . . 210 (2003) 359
Khodja, H., see Bureau, H. . . . 210 (2003) 434
Khodja, H., see Bureau, H. . . . 210 (2003) 449
Khouaja, A., see Gibouin, S. . . . 204 (2003) 240
Khoylou, F., see Hassanpour, S. . . . 208 (2003) 358
Khrushcheva, O., E.E. Zhurkin, L. Malerba, C.S. Becquart, C. Domain and M. Hou, Copper precipitation in iron: a comparison between metropolis Monte Carlo and lattice kinetic Monte Carlo methods . . . 202 (2003) 68
Khrutchinsky, A.A., see Andrukhovich, S.K. . . . 207 (2003) 219
Kido, H., see Murakami, Y. . . . 206 (2003) 304
Kiefer, R.L., R.A. Anderson, M.-H.Y. Kim and S.A. Thibeault, Modified polymeric materials for durability in the atomic oxygen space environment . . . 208 (2003) 300
Kiefl, R.F., W.A. MacFarlane, P. Amaudruz, D. Arseneau, R. Baartman, T.R. Beals, J. Behr, J. Brewer, S. Daviel, A. Hatakeyama, B. Hitti, S.R. Kreitzman, C.D.P. Levy, R. Miller, M. Olivo, R. Poutissou, G.D. Morris, S.R. Dunsiger, R. Heffner, K.H. Chow, Y. Hirayama, H. Izumi, C. Bommas, E. Dumont and L.H. Greene, Low energy spin polarized radioactive beams as a probe of thin films and interfaces . . . 204 (2003) 682
Kiefl, R.F., see Levy, C.D.P. . . . 204 (2003) 689
Kieslich, S., S. Böhm, C. Brandau, A. Müller, S. Schippers, W. Shi, G. Gwinner, M. Schnell and A. Wolf, Dielectronic recombination at low energies: Spectroscopy of doubly excited states in beryllium-like Na^{7+} ions 205 (2003) 99
Kieslich, S., see Schnell, M. . . . 205 (2003) 367
Kiguchi, K., see Tu, Z.-L. . . . 206 (2003) 591
Kiguchi, K., K. Shirai, R. Kanekatsu, Y. Kobayashi, Z.-L. Tu, T. Funayama and H. Watanabe, Radiosurgery using heavy ion microbeams for biological study: Fate mapping of the cellular blastoderm-stage egg of the silkworm, *Bombyx mori* . . . 210 (2003) 312
Kikiani, B., see Gochitashvili, M. . . . 205 (2003) 494
Kim, D.E., see Moribayashi, K. . . . 205 (2003) 334
Kim, H.K., see Jeon, G.Y. . . . 206 (2003) 409
Kim, J.S., see Jeon, G.Y. . . . 206 (2003) 409
Kim, M.-H.Y., see Kiefer, R.L. . . . 208 (2003) 300
Kim, S.S., see Hishita, S. . . . 206 (2003) 171
Kim, T.G., see Park, C.H. . . . 206 (2003) 432
Kim, Y.T., see Nakanishi, Y. . . . 206 (2003) 1033
Kimura, H., see Furuno, K. . . . 210 (2003) 459
Kimura, K., see Nakajima, K. . . . 205 (2003) 705
Kimura, T., see Fukudome, T. . . . 206 (2003) 287
Kimura, T., see Itou, M. . . . 206 (2003) 1013
Kindler, B., see Geissel, H. . . . 204 (2003) 71
Kindler, B., see Scheidenberger, C. . . . 204 (2003) 119
Kindler, B., see Tahir, N.A. . . . 204 (2003) 282
Kinomura, A., see Fukumi, K. . . . 206 (2003) 353
Kinomura, A., see Angelov, Ch. . . . 206 (2003) 907
Kinomura, A., Y. Mokuno, A. Chayahara, N. Tsubouchi and Y. Horino, In situ monitoring of polyimide windows for external ion microbeams . . . 210 (2003) 75
Kinomura, A., see Abo, S. . . . 210 (2003) 216
Kinoshita, C., see Higuchi, T. . . . 206 (2003) 103
Kirchner, R., see Roeckl, E. . . . 204 (2003) 53
Kirchner, R., Review of ISOL target–ion-source systems . . . 204 (2003) 179
Kirchner, R., see Köster, U. . . . 204 (2003) 303
Kirchner, R., see Nörtershäuser, W. . . . 204 (2003) 644

Kirchner, T., L. Gulyás, R. Moshammer, M. Schulz and J. Ullrich, Correlation effects in differential electron-emission spectra obtained from double ionisation of He by fast Au^{53+} impact 205 (2003) 479
Kirkby, K.J., see Webb, R.P. 202 (2003) 143
Kirkpatrick, A., see Kitagawa, T. 201 (2003) 405
Kirkpatrick, A., Gas cluster ion beam applications and equipment 206 (2003) 830
Kirsch, R., see Artru, X. 201 (2003) 243
Kirsch, R., see Dauvergne, D. 205 (2003) 773
Kirsch, R., see Bräuning, H. 205 (2003) 826
Kishimoto, N., see Kono, K. 206 (2003) 291
Kishimoto, N., see Bandourko, V. 206 (2003) 606
Kishimoto, N., see Okubo, N. 206 (2003) 610
Kishimoto, N., see Takeda, Y. 206 (2003) 620
Kishimoto, N., Y. Takeda, N. Umeda, N. Okubo and R.G. Faulkner, Ion-induced metal nanoparticles in insulators for nonlinear optical property 206 (2003) 634
Kishimoto, N., see Umeda, N. 206 (2003) 657
Kishimoto, N., see Suga, T. 206 (2003) 947
Kishimoto, N., see Plaksin, O.A. 206 (2003) 1083
Kishimoto, N., see Amekura, H. 206 (2003) 1101
Kiss, Á.Z., see Uzonyi, I. 210 (2003) 147
Kiss, Á.Z., see Rajta, I. 210 (2003) 260
Kiss, Á.Z., see Sziki, G.Á. 210 (2003) 478
Kitagawa, A., see Sato, Y. 201 (2003) 571
Kitagawa, T., I. Yamada, N. Toyoda, H. Tsubakino, J. Matsuo, G.H. Takaoka and A. Kirkpatrick, Hard DLC film formation by gas cluster ion beam assisted deposition 201 (2003) 405
Kitagawa, T., see Kanda, K. 206 (2003) 880
Kitagawa, T., K. Miyauchi, N. Toyoda, K. Kanda, T. Ikeda, H. Tsubakino, J. Matsuo, S. Matsui and I. Yamada, Influence of residual Ar^+ in Ar cluster ion beam for DLC film formation 206 (2003) 884
Kitagawa, T., see Miyauchi, K. 206 (2003) 893
Kitahara, A., see Saito, Y. 206 (2003) 272
Kitahara, N., T. Echigo, T. Otani and Y. Yamamoto, Formation of SiGe alloys using ion beam mixing followed by ion beam induced epitaxial crystallization 206 (2003) 999
Kitajima, M., see Hoshino, M. 205 (2003) 568
Kitajima, M., M. Hase, K. Ishioka and K. Ushida, Application of time-domain vibrational spectroscopy to the study of defects in ion-implanted materials 206 (2003) 99
Kitamura, N., see Fukumi, K. 206 (2003) 353
Kitamura, S., M. Inoue, N. Ohmido, K. Fukui and A. Tanaka, Chromosomal rearrangements in interspecific hybrids between *Nicotiana gossei* Domin and *N. tabacum* L., obtained by crossing with pollen exposed to helium ion beams or gamma-rays 206 (2003) 548
Kitazawa, S.-i., T.Y.S. Panca Putra, S. Sakai, K. Narumi, H. Naramoto, S. Yamamoto and A. Chiba, Laser detection of surface acoustic waves as a method of measuring an Ar ion beam modification of carbon thin film 206 (2003) 952
Kiuchi, M., see Ensinger, W. 206 (2003) 334
Kiuchi, M., see Matsutani, T. 206 (2003) 343
Kiuchi, M., see Liu, C. 206 (2003) 348
Klaumünzer, S., see Wesch, W. 206 (2003) 1018
Klaumünzer, S., see Darowski, N. 209 (2003) 131
Klaumünzer, S., see Hou, M.D. 209 (2003) 149
Klemme, S., see Glasmacher, U.A. 209 (2003) 351
Klepper, O. and C. Kozhuharov, Particle detectors for beam diagnosis and for experiments with stable and radioactive ions in the storage-cooler ring ESR 204 (2003) 553
Klepper, O., see Gumberidze, A. 205 (2003) 374
Kling, A., J.C. Soares, P.F.P. Fichtner, L. Amaral, F. Zawislak, I. Földvári and Á. Péter, Creation of noble metal nanoclusters in bismuth tellurite 206 (2003) 653
Kluge, H.-J., see Blaum, K. 204 (2003) 331
Kluge, H.-J., see Blaum, K. 204 (2003) 478
Kluge, H.-J., see Sikler, G. 204 (2003) 482
Kluge, H.-J., see Dilling, J. 204 (2003) 492

Kluge, H.-J., see Nörtershäuser, W. 204 (2003) 644
Kluge, H.-J., see Werth, G. 205 (2003) 1
Kluge, H.-J., see Beier, T. 205 (2003) 15
Kluge, H.-J., see Stöhlker, Th. 205 (2003) 156
Knecht, J., see Ensinger, W. 206 (2003) 334
Knolle, W., see Scherzer, T. 208 (2003) 271
Knolle, W., see Naumov, S. 208 (2003) 385
Knoop, S., J.W. Turkstra, R. Morgenstern, R.E. Olson and R. Hoekstra, Multi-electron processes in slow He^{2+}–Na collisions measured with MOTRIMS 205 (2003) 560
Knopp, H., see Brandau, C. 205 (2003) 66
Knopp, H., see Shi, W. 205 (2003) 201
Knopp, H., see Jacobi, J. 205 (2003) 410
Knopp, H., C. Böhme, J. Jacobi, S. Ricz, S. Schippers and A. Müller, Electron-impact multiple ionization of Ba^{q+} ions ($1 \leqslant q \leqslant 13$) via resonant 3d excitation 205 (2003) 433
Knott, R.B., see Burford, R.P. 208 (2003) 58
Knudsen, H., see Uggerhøj, U.I. 207 (2003) 402
Knutson, H., see Hossain, S. 205 (2003) 484
Kobayashi, C., see Sato, Y. 201 (2003) 571
Kobayashi, N., see Konnai, A. 205 (2003) 586
Kobayashi, T., see Shibata, T. 206 (2003) 139
Kobayashi, T., see Motohashi, Y. 206 (2003) 144
Kobayashi, T., M. Iwaki, T. Ubagai and K. Terashima, Formation of carbon needles from fluoropolymer by ion irradiation followed by defluorination 206 (2003) 184
Kobayashi, T., see Yokoyama, Y. 206 (2003) 512
Kobayashi, T., A. Nakao and M. Iwaki, Wear properties of tungsten-implanted polyimide 206 (2003) 1110
Kobayashi, Y., see Hirata, K. 206 (2003) 47
Kobayashi, Y., see Wada, S. 206 (2003) 553
Kobayashi, Y., see Tu, Z.-L. 206 (2003) 591
Kobayashi, Y., see Koizumi, H. 206 (2003) 1124
Kobayashi, Y., see Koizumi, H. 208 (2003) 161
Kobayashi, Y., T. Funayama, S. Wada, M. Taguchi and H. Watanabe, Irradiation of single mammalian cells with a precise number of energetic heavy ions – Applications of microbeams for studying cellular radiation response 210 (2003) 308
Kobayashi, Y., see Kiguchi, K. 210 (2003) 312
Koch, K., W. Tuszynski and H. Voit, Luminescence induced by swift atomic ions in samples with nanoscale dimensions 209 (2003) 48
Koegler, R., see Peeva, A. 206 (2003) 71
Koga, Y., see Watanabe, T. 206 (2003) 726
Kogi, O., see Abe, K. 206 (2003) 960
Kögler, R., F. Eichhorn, A. Mücklich, H. Reuther, V. Heera, W. Skorupa and J.K.N. Lindner, SiC precipitates formed in Si by simultaneous dual beam implantation of C^+ and Si^+ ions 206 (2003) 989
Koguchi, Y., T. Meguro, A. Hida, H. Takai, K. Maeda, Y. Yamamoto and Y. Aoyagi, Modification of highly oriented pyrolytic graphite (HOPG) surfaces with highly charged ion (HCI) irradiation 206 (2003) 202
Koguchi, Y., see Yoshioka, T. 207 (2003) 323
Koguchi, Y., see Meguro, T. 209 (2003) 170
Kogure, Y., see Doyama, M. 202 (2003) 64
Kohata, M., see Yukimura, K. 206 (2003) 745
Koike, M., see Purwanto, S. 206 (2003) 326
Koizumi, H., T. Ichikawa, M. Taguchi, Y. Kobayashi and H. Namba, Chemical effects of heavy ion beams on organic materials 206 (2003) 1124
Koizumi, H., M. Taguchi, Y. Kobayashi and T. Ichikawa, Crosslinking of polymers in heavy ion tracks 208 (2003) 161
Koizumi, M., A. Osa, M. Oshima, T. Sekine, T. Wakui, W.G. Jin, H. Katsuragawa, H. Miyatake and Y. Ishida, A laser ion source with a thin ohmic-heating ionizer for the TIARA-ISOL 204 (2003) 359
Koizumi, M., see Miyatake, H. 204 (2003) 746
Koizumi, Y., see Mori, H. 206 (2003) 31
Koizumi, Y., see Onoda, S. 206 (2003) 444
Koizumi, Y., see Onoda, S. 210 (2003) 232

Kojima, H., see Hayashi, K. ... 206 (2003) 403
Kojima, T., see Ishii, Y. ... 210 (2003) 70
Kojima, T.M., see Wada, M. ... 204 (2003) 570
Kojima, T.M., see Oshima, N. ... 205 (2003) 178
Kojouharov, I., see Lozeva, R. ... 204 (2003) 678
Kojouharova, J., see Geissel, H. ... 204 (2003) 71
Kojouharova, J., see Tahir, N.A. ... 204 (2003) 282
Kokkoris, M., G. Perdikakis, R. Vlastou, C.T. Papadopoulos, X.A. Aslanoglou, M. Posselt, R. Grötzschel, S. Harissopulos and S. Kossionides, Investigation of deep implanted fluorine channeling profiles in silicon using resonant NRA ... 201 (2003) 623
Kolchuzhkin, A., A. Potylitsyn, S. Strokov and V. Ababiy, Stochastics of multiple electron–photon head-on collisions ... 201 (2003) 307
Kolesnikov, A.S., see Zhurkin, E.E. ... 202 (2003) 269
Kolesnikova, V.V., see Kolninov, O.V. ... 208 (2003) 364
Kolev, K., see Laude, L.D. ... 208 (2003) 314
Kolhinen, V.S., T. Eronen, J. Hakala, A. Jokinen, S. Kopecky, S. Rinta-Antila, J. Szerypo and J. Äystö, Penning trap for isobaric mass separation at IGISOL ... 204 (2003) 502
Kollmus, H., see Hagmann, S. ... 205 (2003) 207
Kolninov, O.V., V.V. Kolesnikova, A.P. Podsobljaev and I.P. Shelukhov, Sensitization of the radiation-induced chain oxidation of aromatic amines in polymer films (038) ... 208 (2003) 364
Kolomiets, A.A., see Ostroumov, P.N. ... 204 (2003) 433
Komaki, K., see Oshima, N. ... 205 (2003) 178
Komaki, K., see Kuroki, K. ... 203 (2003) 183
Komaki, K., see Kawatsura, K. ... 205 (2003) 528
Komaki, K., see Okabayashi, N. ... 205 (2003) 725
Komaki, K., see Morishita, Y. ... 205 (2003) 758
Komaki, K., see Iwai, Y. ... 205 (2003) 762
Komaki, K., see Azuma, T. ... 205 (2003) 779
Komaki, K., see Nakai, Y. ... 205 (2003) 784
Komaki, K.-i., see Endo, A. ... 205 (2003) 187
Komarneni, S., see Kozai, N. ... 210 (2003) 513
Komatsu, S., see Ono, F. ... 206 (2003) 295
Komatsubara, T., see Sasa, K. ... 210 (2003) 48
Komatsubara, T., see Furuno, K. ... 210 (2003) 459
Komissarov, R., see Shirkov, G. ... 205 (2003) 215
Komori, Y., see Oishi, Y. ... 210 (2003) 117
Komori, Y., see Harada, S. ... 210 (2003) 383
Kondo, C., see Azuma, T. ... 205 (2003) 779
Kondo, M., see Kawanowa, H. ... 203 (2003) 178
Kondo, S., see Ikeda, M. ... 209 (2003) 154
Kondyurin, A.V., see Khaibullin, R.I. ... 206 (2003) 1115
Konishi, T., see Yamaguchi, H. ... 210 (2003) 292
Konnai, A., H. Tanuma and N. Kobayashi, Electron transfer to individual magnetic substates of $3p\ ^2P$ in collisions of helium-like ions with two-electron targets ... 205 (2003) 586
Konno, H., see Hayashi, K. ... 206 (2003) 403
Kono, K., S.K. Arora and N. Kishimoto, Modification in optical properties of negative Cu ion implanted ZnO ... 206 (2003) 291
Kono, K., see Bandourko, V. ... 206 (2003) 606
Kono, K., see Suga, T. ... 206 (2003) 947
Koop, N., see Rusanov, V. ... 207 (2003) 205
Kopatch, Y., see Lozeva, R. ... 204 (2003) 678
Kopcewicz, M., see Piatkowska, A. ... 206 (2003) 1052
Kopecky, S., see Kolhinen, V.S. ... 204 (2003) 502
Kopecky, S., see Berg, G.P. ... 204 (2003) 532
Korman, A., see Banaś, D. ... 205 (2003) 139
Korman, A., see Majewska, U. ... 205 (2003) 799
Körner, H.-J., see Dollinger, G. ... 210 (2003) 6
Körner, H.-J., see Reichart, P. ... 210 (2003) 135

Korolev, D.N., see Volkov, A.E. 209 (2003) 98
Korolev, D.N., see Borodin, V.A. 209 (2003) 122
Koscielniak, F., see Artukh, A.G. 204 (2003) 159
Koshimizu, M., K. Shibuya, K. Asai and H. Shibata, Observation of local heating in an ion track by measuring the ion-induced luminescence spectrum 206 (2003) 57
Kossionides, S., see Kokkoris, M. 201 (2003) 623
Koster, M. and H.M. Urbassek, Damage production in low-energy Au and Si irradiation of a-Si: Influence of projectile mass 202 (2003) 125
Köster, U., see Bergmann, U.C. 204 (2003) 220
Köster, U., see Catherall, R. 204 (2003) 235
Köster, U., see Lau, C. 204 (2003) 257
Köster, U., see Peräjärvi, K. 204 (2003) 272
Köster, U., U.C. Bergmann, D. Carminati, R. Catherall, J. Cederkäll, J.G. Correia, B. Crepieux, M. Dietrich, K. Elder, V.N. Fedoseyev, L. Fraile, S. Franchoo, H. Fynbo, U. Georg, T. Giles, A. Joinet, O.C. Jonsson, R. Kirchner, Ch. Lau, J. Lettry, H.J. Maier, V.I. Mishin, M. Oinonen, K. Peräjärvi, H.L. Ravn, T. Rinaldi, M. Santana-Leitner, U. Wahl, L. Weissman and the ISOLDE Collaboration, Oxide fiber targets at ISOLDE . 204 (2003) 303
Köster, U., M. Argentini, R. Catherall, V.N. Fedoseyev, H.W. Gäggeler, O.C. Jonsson, R. Weinreich and ISOLDE Collaboration, Off-line production of intense $^{7,10}Be^{+}$ beams 204 (2003) 343
Köster, U., V.N. Fedoseyev, A.N. Andreyev, U.C. Bergmann, R. Catherall, J. Cederkäll, M. Dietrich, H. De Witte, D.V. Fedorov, L. Fraile, S. Franchoo, H. Fynbo, U. Georg, T. Giles, M. Gorska, M. Hannawald, M. Huyse, A. Joinet, O.C. Jonsson, K.L. Kratz, K. Kruglov, Ch. Lau, J. Lettry, V.I. Mishin, M. Oinonen, K. Partes, K. Peräjärvi, B. Pfeiffer, H.L. Ravn, M.D. Seliverstov, P. Thirolf, K. Van de Vel, P. Van Duppen, J. Van Roosbroeck, L. Weissman and ISOLDE Collaborations, On-line yields obtained with the ISOLDE RILIS 204 (2003) 347
Köster, U., see Fedosseev, V.N. 204 (2003) 353
Köster, U., see Lettry, J. 204 (2003) 363
Kotaki, H., see Tsuji, H. 206 (2003) 615
Kotaki, H., see Arai, N. 206 (2003) 629
Kotanjyan, A.S., Radiation from a charged particle rotating inside a dielectric cylinder 201 (2003) 3
Kothapalli, A. and G. Sadler, Determination of non-volatile radiolytic compounds in ethylene co-vinyl alcohol 208 (2003) 340
Kotthaus, R., see Pugachov, D. 201 (2003) 55
Kovalev, G.V., Focusing limits of channeled high energy particles in bent crystals 207 (2003) 482
Kozai, N., see Ohnuki, T. 210 (2003) 378
Kozai, N., see Ohnuki, T. 210 (2003) 407
Kozai, N., T. Ohnuki, S. Komarneni, T. Kamiya, T. Sakai, M. Oikawa and T. Satoh, Uptake of cadmium by synthetic mica and apatite: Observation by micro-PIXE 210 (2003) 513
Kozhuharov, C., see Sikler, G. 204 (2003) 482
Kozhuharov, C., see Klepper, O. 204 (2003) 553
Kozhuharov, C., see Brandau, C. 205 (2003) 66
Kozhuharov, C., see Stöhlker, Th. 205 (2003) 156
Kozhuharov, C., see Stöhlker, Th. 205 (2003) 210
Kozhuharov, C., see Gumberidze, A. 205 (2003) 374
Kozhuharov, C., see Ma, X. 205 (2003) 550
Kozhuharov, C., see Bednarz, G. 205 (2003) 573
Kozhuharov, C., see Dauvergne, D. 205 (2003) 773
Kozhuharov, C., see Bräuning, H. 205 (2003) 826
Kozhuharov, Ch., see Hagmann, S. 205 (2003) 207
Kozicki, M., see Rosiak, J.M. 208 (2003) 325
Kozlov, V.Yu., see Beck, M. 204 (2003) 521
Králiková, B., see Krása, J. 205 (2003) 355
Krása, J., K. Jungwirth, B. Králiková, L. Láska, M. Pfeifer, K. Rohlena, J. Skála, J. Ullschmied, V. Hnatowicz, V. Peřina, J. Badziak, P. Parys, J. Wołowski, E. Woryna and A. Szydlowski, Highly charged ions generated with intense laser beams 205 (2003) 355
Krämer, M., see Spielberger, B. 209 (2003) 277
Krücken, R., see Ressler, J.J. 204 (2003) 141
Krücken, R., see Habs, D. 204 (2003) 739
Kraev, I.S., see Beck, M. 204 (2003) 521

Kraft, G., see Spielberger, B. 209 (2003) 277
Krantzman, K., see Postawa, Z. 202 (2003) 168
Krantzman, K.D., R. Fenno, A. Delcorte and B.J. Garrison, Theoretical simulations of atomic and polyatomic bombardment of an organic overlayer on a metallic substrate 202 (2003) 201
Krasa, J., see Gammino, S. 209 (2003) 345
Krasheninnikov, A.V., K. Nordlund, J. Keinonen and F. Banhart, Making junctions between carbon nanotubes using an ion beam 202 (2003) 224
Krasheninnikov, A.V., see Pomoell, J. 206 (2003) 18
Krastev, V., see Currell, F.J. 205 (2003) 230
Krastev, V., see Watanabe, H. 205 (2003) 239
Kratz, K.L., see Köster, U. 204 (2003) 347
Krause, D., see Mändl, S. 206 (2003) 517
Krause, H.F., see Meyer, F.W. 203 (2003) 231
Krause, H.F., see Smith, A.C.H. 205 (2003) 421
Krause, H.F., see Meyer, F.W. 205 (2003) 700
Krbetschek, M.R., see Erfurt, G. 207 (2003) 487
Kreckel, H., see Zajfman, D. 205 (2003) 360
Kreiner, A.J., see Ozafrán, M.J. 201 (2003) 317
Kreitzman, S.R., see Kiefl, R.F. 204 (2003) 682
Kretschmer, W., see Banaś, D. 205 (2003) 139
Kretschmer, W., see Majewska, U. 205 (2003) 799
Krings, T., see Stöhlker, Th. 205 (2003) 210
Krischok, S., O. Höfft, J. Günster, R. Souda and V. Kempter, The chemistry of alkali atoms on solid water: a study with MIES and UPS 203 (2003) 124
Krischok, S., see Borodin, A. 203 (2003) 205
Krohn, S., see Zajfman, D. 205 (2003) 360
Krolas, W., see Batchelder, J.C. 204 (2003) 625
Kruglov, K., see Köster, U. 204 (2003) 347
Kubankin, A., N. Nasonov, V. Sergienko and I. Vnukov, An investigation of the parametric X-rays along the velocity of emitting particle 201 (2003) 97
Kubankin, A.S., see Adischev, Y.N. 201 (2003) 114
Kubo, T., In-flight RI beam separator BigRIPS at RIKEN and elsewhere in Japan 204 (2003) 97
Kubo, T., see Wada, M. 204 (2003) 570
Kubota, A., M.-J. Caturla, J. Stolken, B. Sadigh, S. Reyes, T. Diaz de la Rubia and J.F. Latkowski, Threats to ICF reactor materials: computational simulations of radiation damage induced topological changes in fused silica 202 (2003) 88
Kubota, A., see Felter, T.E. 207 (2003) 72
Kubsky, S., see Schweitzer, J.S. 207 (2003) 80
Kudo, H., K.-i. Takeda, T. Suguri, W. Iwazaki, C. Sakurai, I. Arano, S. Numazawa and S. Seki, Electron loss from fast partially stripped C and O ions incident on crystal targets 207 (2003) 283
Kudoh, H., see Hama, Y. 208 (2003) 123
Kudryavtsev, Yu., M. Facina, M. Huyse, J. Gentens, P. Van den Bergh and P. Van Duppen, Beams of isotopes produced at LISOL by laser ionization after thermalization of energetic ions in a gas cell 204 (2003) 336
Kugler, E., see Giles, T.J. 204 (2003) 497
Kühl, T., see Nörtershäuser, W. 204 (2003) 644
Kühl, Th., see Stöhlker, Th. 205 (2003) 156
Kujawa, P., see Rosiak, J.M. 208 (2003) 325
Kuji, T., see Takeuchi, M. 206 (2003) 259
Kukhtin, V.P., see Artukh, A.G. 204 (2003) 159
Kulessa, R., see Geissel, H. 204 (2003) 71
Kulibaba, V., see Artru, X. 201 (2003) 243
Kulp, D., see Batchelder, J.C. 204 (2003) 625
Kumagai, M., see Yukimura, K. 206 (2003) 745
Kumagai, M., see Takaki, K. 206 (2003) 794
Kumar, J., see Senthil Kumar, M. 207 (2003) 308
Kumar, R., see Dogra, A. 207 (2003) 296
Kumar, S., see Diwan, P.K. 201 (2003) 389

Kumata, Y., see Fukuda, M. 210 (2003) 33
Kume, H., see Kurosawa, M. 210 (2003) 468
Kume, T., see Yoshii, F. 208 (2003) 320
Kume, T., see Yoshii, F. 208 (2003) 370
Kume, T., see Hai, L. 208 (2003) 466
Kunashenko, Yu.P., see Dolgikh, V.A. 201 (2003) 253
Kuramoto, H., see O'Rourke, B.E. 205 (2003) 378
Kuramoto, H., see Watanabe, H. 205 (2003) 417
Kuranaga, C., see Beloto, A.F. 206 (2003) 677
Kurashima, S., see Fukuda, M. 210 (2003) 33
Kurita, T., see Yasuda, K. 210 (2003) 27
Kuroki, K., K. Komaki and Y. Yamazaki, Potential sputtering of protons from hydrogen- and H_2O-terminated Si(100) surfaces with slow highly charged ions 203 (2003) 183
Kurooka, S., T. Ikeda and A. Tanaka, Improvement of the adhesion of cubic boron nitride films by adding miscellaneous elements 206 (2003) 1088
Kurosawa, M., see Sasa, K. 210 (2003) 48
Kurosawa, M., see Furuno, K. 210 (2003) 459
Kurosawa, M., S. Shimano, S. Ishii, K. Shima, T. Nakajima and T. Kato, Quantitative PIXE analysis of single fluid inclusions in quartz vein: Chemical composition of hydrothermal fluids related to granite 210 (2003) 464
Kurosawa, M., K. Ueno, H. Kume, H. Kashiwazaki and S. Murao, Development of the Tokai nuclear microprobe for natural analogue studies of nuclear waste 210 (2003) 468
Kurotobi, K., see Xu, G.C. 206 (2003) 330
Kurotobi, K., Y. Suzuki, H. Nakajima, H. Suzuki and M. Iwaki, Platelet adhesion and plasma protein adsorption control of collagen surfaces by He^+ ion implantation 206 (2003) 532
Kuroyanagi, N., see Kusakabe, T. 205 (2003) 600
Kuryakin, A.V., see Rodin, A.M. 204 (2003) 114
Kurz, N., see Geissel, H. 204 (2003) 71
Kusakabe, T., Y. Miyamoto, R. Ishida, K. Itoh, N. Kuroyanagi, Y. Nakai and T. Shirai, Total cross sections for charge transfer by multiply charged neon and argon ions colliding with various hydrocarbons at keV energies 205 (2003) 600
Kusiak, M., see Lekki, J. 210 (2003) 472
Kutschera, W. and W. Müller, "Isotope language" of the Alpine Iceman investigated with AMS and MS 204 (2003) 705
Kuusiniemi, P., see Enqvist, T. 204 (2003) 138
Kuusiniemi, P., see Uusitalo, J. 204 (2003) 638
Kuwata, K.T., R.I. Erickson and J.R. Doyle, A comparative study of interatomic potentials for copper and aluminum gas phase sputter atom transport simulations 201 (2003) 566
Kuznetsov, A., see Ganchenkova, M. 202 (2003) 107
Kuznetsov, S.I., see Adischev, Y.N. 201 (2003) 114
Kwok, S.C.H., see Yang, P. 206 (2003) 721

Labzowsky, L.N., see Andreev, O.Yu. 205 (2003) 25
Lacey, J.L., see Doyle, J.P. 206 (2003) 467
Lacoste, A. and J. Pelletier, Processing considerations with plasma-based ion implantation of polymers: theoretical aspects, limitations, and experimental results 208 (2003) 260
Lagutin, A.A. and V.V. Uchaikin, Anomalous diffusion equation: Application to cosmic ray transport 201 (2003) 212
Lai, W.S., see Hu, L. 206 (2003) 127
Laird, J.S., see Mori, H. 206 (2003) 31
Laird, J.S., T. Hirao, S. Onoda, H. Mori and H. Itoh, TCAD modeling of single MeV ion induced charge collection processes in Si devices 206 (2003) 36
Laird, J.S., see Onoda, S. 206 (2003) 444
Laird, J.S., see Hirao, T. 206 (2003) 457
Laird, J.S., see Ohshima, T. 206 (2003) 979
Laird, J.S., see Ohshima, T. 210 (2003) 201
Laird, J.S., see Kamiya, T. 210 (2003) 206
Laird, J.S., see Hirao, T. 210 (2003) 221
Laird, J.S., see Hirao, T. 210 (2003) 227
Laird, J.S., see Onoda, S. 210 (2003) 232

Laird, J.S. T. Hirao, S. Onoda, H. Mori and H. Itoh, A comparison of heavy ion and picosecond laser microbeams for investigating single event transients in InGaAs on InP photodetectors 210 (2003) 243
Laming, J.M., see Takács, E. 205 (2003) 144
Laming, M., see Matranga, M. 205 (2003) 244
Lammich, L., see Zajfman, D. 205 (2003) 360
Lamour, E., see Adoui, L. 205 (2003) 341
Lamzin, E.V., see Artukh, A.G. 204 (2003) 159
Landers, A.L., see Hossain, S. 205 (2003) 484
Landgraf, S., see Kentsch, U. 205 (2003) 260
Landis, D., see Takács, E. 205 (2003) 144
Landre-Pellemoine, F., see Gibouin, S. 204 (2003) 240
Landre-Pellemoine, F., see Tahir, N.A. 204 (2003) 282
Landron, C., see Hennet, L. 207 (2003) 447
Lane, M., see Dombsky, M. 204 (2003) 191
Lane, M., see Bricault, P. 204 (2003) 319
Lang, M., see Müller, C. 209 (2003) 175
Lang, M., see Glasmacher, U.A. 209 (2003) 351
Lang, M., U.A. Glasmacher, R. Neumann and G.A. Wagner, Etching behaviour of alpha-recoil tracks in natural dark mica studied via artificial ion tracks 209 (2003) 357
Lang, N.D., see Doyle, J.P. 206 (2003) 467
Lange, M., see Zajfman, D. 205 (2003) 360
Lansaque, F., see Hitz, D. 205 (2003) 168
Lanzanò, G., E. De Filippo, A. Anzalone, N. Arena, M. Geraci, F. Giustolisi, A. Pagano, H. Rothard and C. Volant, Recent results on fast intermediate velocity electron production induced by 19^{+} 45 A MeV ^{58}Ni highly charged ions on thin solid targets 205 (2003) 841
Lanzanò, G., A. Anzalone, N. Arena, E. De Filippo, M. Geraci, F. Giustolisi, A. Pagano, H. Rothard and C. Volant, Recent results on fast electron production induced by energetic heavy ions on thin solid targets 209 (2003) 212
Lapi, S., T.J. Ruth, A. Zyuzin and J.M. D'Auria, Development of an intense O-15 radioactive ion beam using low energy protons 204 (2003) 444
Larnac, G., see Lopitaux, G. 208 (2003) 500
Larochelle, Y., see Batchelder, J.C. 204 (2003) 625
Láska, L., see Krása, J. 205 (2003) 355
Laska, L., see Gammino, S. 209 (2003) 345
Lassen, J., see Fedosseev, V.N. 204 (2003) 353
Latkowski, J.F., see Kubota, A. 202 (2003) 88
Lau, C., see Gibouin, S. 204 (2003) 240
Lau, C., B. Roussière, D. Verney, O. Bajeat, F. Ibrahim, F. Clapier, E. Cottereau, C. Donzaud, M. Ducourtieux, S. Essabaa, D. Guillemaud-Mueller, F. Hosni, H. Lefort, F. Le Blanc, A.C. Mueller, J. Obert, N. Pauwels, J.C. Potier, F. Pougheon, J. Proust, J. Sauvage and A. Wojtasiewicz, Recent studies to improve release properties from thick isotope separator on-line fission targets 204 (2003) 246
Lau, C., F. Hosni, O. Perru, O. Bajeat, R. Borcea, Ch. Bourgeois, C. Donzaud, M. Ducourtieux, S. Essabaa, D. Guillemaud-Mueller, F. Ibrahim, H. Lefort, J. Obert, J.C. Potier, E. Fioretto, G. Lhersonneau, G. Prete, L. Stroe, L. Tecchio, B. Pfeiffer, A. Joinet, U. Köster, J. Lettry and K. Peräjärvi, Production of neutron-rich surface-ionized nuclides at PARRNe 204 (2003) 257
Lau, C., see Peräjärvi, K. 204 (2003) 272
Lau, C., see Essabaa, S. 204 (2003) 780
Lau, Ch., see Köster, U. 204 (2003) 303
Lau, Ch., see Köster, U. 204 (2003) 347
Laude, L.D., C. Cochrane, Cl. Dicara, C. Dupas-Bruzek and K. Kolev, Excimer laser decomposition of silicone 208 (2003) 314
Lauer, M., see Kester, O. 204 (2003) 20
Laurent, C. and G. Teyssedre, Hot electron and partial-discharge induced ageing of polymers 208 (2003) 442
Laurent, G., M. Tarisien, X. Fléchard, P. Jardin, L. Guillaume, P. Sobocinski, L. Adoui, A. Bordenave-Montesquieu, D. Bordenave-Montesquieu, J.-Y. Chesnel, F. Frémont, D. Hennecart, E. Liénard, L. Maunoury, P. Moretto-Capelle and A. Cassimi, Coincident Auger electron and recoil ion momentum spectroscopy for low-energy ion–atom collisions 205 (2003) 546

Lautesse, Ph., see Artru, X. ... 201 (2003) 243
Law, C., see Müller, P. ... 204 (2003) 536
Lawton, D., see Schwarz, S. ... 204 (2003) 474
Lawton, D., see Schwarz, S. ... 204 (2003) 507
Laxdal, R.E., Acceleration of radioactive ions ... 204 (2003) 400
Lazanu, I. and S. Lazanu, The influence of initial impurities and irradiation conditions on defect production and annealing in silicon for particle detectors ... 201 (2003) 491
Lazanu, S., see Lazanu, I. ... 201 (2003) 491
Lázaro, J., see Hernández-Mangas, J.M. ... 202 (2003) 138
Lazzaro, A., see Shchepunov, V.A. ... 204 (2003) 447
Leal, R., see Papaléo, R.M. ... 206 (2003) 7
Lebed, S., see Lekki, J. ... 210 (2003) 472
Lebedev, A.N., see Efremov, A. ... 204 (2003) 368
Lebius, H., see Siegmann, B. ... 205 (2003) 629
Lebius, H., see Werner, U. ... 205 (2003) 639
Lebius, H., see Manil, B. ... 205 (2003) 666
Lebius, H., see Manil, B. ... 205 (2003) 684
Lebius, H., see Khalfaoui, N. ... 209 (2003) 165
Le Blanc, F., see Lau, C. ... 204 (2003) 246
Le Blanc, F., see Essabaa, S. ... 204 (2003) 780
Lecesne, N., see Gibouin, S. ... 204 (2003) 240
Lecesne, N., see Jardin, P. ... 204 (2003) 377
Lederer, M.J., see Elliman, R.G. ... 206 (2003) 427
Lederer, S., A. Mertens, H. Winter, F. Aumayr, HP. Winter and V. Staemmler, Electronic processes near kinematic threshold for grazing scattering of fast hydrogen atoms from a LiF(001) surface ... 203 (2003) 23
Lee, C.G., see Bandourko, V. ... 206 (2003) 606
Lee, C.G., see Suga, T. ... 206 (2003) 947
Lee, G.H., see Lee, I.-S. ... 206 (2003) 522
Lee, I.-S., C.-N. Whang, G.H. Lee, F.-Z. Cui and A. Ito, Effects of ion beam assist on the formation of calcium phosphate film ... 206 (2003) 522
Lee, J.K.P., see Clark, J. ... 204 (2003) 487
Lee, J.K.P., see Savard, G. ... 204 (2003) 582
Lee, J.W., see Yoshida, M. ... 206 (2003) 712
Lee, J.Y., see Park, C.H. ... 206 (2003) 432
Lee, K.K., see Ohshima, T. ... 206 (2003) 979
Lee, K.K., see Nishijima, T. ... 210 (2003) 196
Lee, K.K., see Ohshima, T. ... 210 (2003) 201
Lee, K.K., see Kamiya, T. ... 210 (2003) 206
Lee, K.K., T. Ohshima, A. Saint, T. Kamiya, D.N. Jamieson and H. Itoh, A comparative study of the radiation hardness of silicon carbide using light ions ... 210 (2003) 489
Lee, T.G., see Zamkov, M. ... 205 (2003) 522
Lee, Y.-Y., C. Heck, A. Chayahara, Y. Horino, W. Ensinger and B. Enders, Electrochemical porosity determination of thin protective films on iron base materials ... 206 (2003) 754
Lefort, H., see Gibouin, S. ... 204 (2003) 240
Lefort, H., see Lau, C. ... 204 (2003) 246
Lefort, H., see Lau, C. ... 204 (2003) 257
Lefort, H., see Essabaa, S. ... 204 (2003) 780
LeGarrec, J.L., see Mitchell, J.B.A. ... 207 (2003) 227
Legrand-Buscema, C., see Jagielski, J. ... 206 (2003) 1097
Legras, R., see Ferain, E. ... 208 (2003) 115
Legras, R., see Dehaye, F. ... 209 (2003) 103
Leherissier, P., see Jardin, P. ... 204 (2003) 377
Leino, M., Gas-filled separators – An overview ... 204 (2003) 129
Leino, M., see Enqvist, T. ... 204 (2003) 138
Leino, M., see Page, R.D. ... 204 (2003) 634
Leino, M., see Uusitalo, J. ... 204 (2003) 638

Leisner, T., see Manil, B. 205 (2003) 684
Leite, N.F., see Beloto, A.F. 206 (2003) 677
Lekki, J., S. Lebed, M.L. Paszkowski, M. Kusiak, J. Vogt, R. Hajduk, W. Polak, A. Potempa, Z. Stachura and J. Styczeń, Age determination of monazites using the new experimental chamber of the Cracow proton microprobe 210 (2003) 472
Lemagnen, F., see Jardin, P. 204 (2003) 377
Le Moël, A., see Betz, N. 208 (2003) 434
Leng, Y.X., see Yang, P. 206 (2003) 721
Lensch, O., see Ensinger, W. 206 (2003) 334
Leporis, M., see Efremov, A. 204 (2003) 368
Leppänen, A.-P., see Enqvist, T. 204 (2003) 138
Leppänen, A-P., see Uusitalo, J. 204 (2003) 638
Lepson, J.K., see Beiersdorfer, P. 205 (2003) 173
Leroy, R., see Gibouin, S. 204 (2003) 240
Leroy, R., see Jardin, P. 204 (2003) 377
Le Scornet, J.C., see Essabaa, S. 204 (2003) 780
Lesrel, J., see Essabaa, S. 204 (2003) 780
Leto, G., see Baratta, G.A. 209 (2003) 283
Lettry, J., see Bergmann, U.C. 204 (2003) 220
Lettry, J., see Catherall, R. 204 (2003) 235
Lettry, J., G. Arnau, M. Benedikt, S. Gilardoni, R. Catherall, U. Georg, G. Cyvogt, A. Fabich, O. Jonsson, H. Ravn, S. Sgobba, The ISOLDE Collaboration, G. Bauer, H. Brucherstseifer, T. Graber, C. Güdermann, L. Ni and R. Rastani, Effects of thermal shocks on the release of radioisotopes and on molten metal target vessels 204 (2003) 251
Lettry, J., see Lau, C. 204 (2003) 257
Lettry, J., see Wenander, F. 204 (2003) 261
Lettry, J., see Peräjärvi, K. 204 (2003) 272
Lettry, J., see Köster, U. 204 (2003) 303
Lettry, J., see Köster, U. 204 (2003) 347
Lettry, J., R. Catherall, U. Köster, U. Georg, O. Jonsson, S. Marzari, V. Fedosseev and The ISOLDE Collaboration, Alkali suppression within laser ion-source cavities and time structure of the laser ionized ion-bunches 204 (2003) 363
Lettry, J., see Giles, T.J. 204 (2003) 497
Levand, A., see Savard, G. 204 (2003) 582
Levchenko, V.D., see Gerasimenko, N.N. 206 (2003) 299
Levesque, P.L., M. Michaud and L. Sanche, Cross sections for low energy (1–12 eV) inelastic electron scattering from condensed thymine 208 (2003) 225
Levonian, S.V., see Serov, A.V. 201 (2003) 91
Levy, C.D.P., see Kiefl, R.F. 204 (2003) 682
Levy, C.D.P., A. Hatakeyama, Y. Hirayama, R.F. Kiefl, R. Baartman, J.A. Behr, H. Izumi, D. Melconian, G.D. Morris, R. Nussbaumer, M. Olivo, M. Pearson, R. Poutissou and G.W. Wight, Polarized radioactive beam at ISAC 204 (2003) 689
Lewoczko, W., see Stöhlker, Th. 205 (2003) 210
Lhersonneau, G., see Lau, C. 204 (2003) 257
L'Hoir, A., see Amsel, G. 201 (2003) 325
L'Hoir, A., see Dauvergne, D. 205 (2003) 773
Li, C.M., see An, Z. 207 (2003) 268
Li, G., see Zhang, X. 201 (2003) 551
Li, G., see Winkler, M. 204 (2003) 454
Li, J., see Andrighetto, A. 204 (2003) 205
Li, L., see Cui, B. 204 (2003) 58
Li, L.H., X.B. Tian, P.K. Chu, Y.H. Zhang, X.M. Cui and H.Q. Zhang, Growth and nucleation of diamond-like carbon (DLC) film on aluminum 206 (2003) 691
Li, M., see Hanley, L. 203 (2003) 116
Li, M., see Li, X. 210 (2003) 412
Li, Q., see Feng, T. 206 (2003) 198

Li, W.J., Z.R. Song, Y.H. Yu, S.C. Zou and D. Shen, Determination of sp^3/sp^2 ratio in amorphous-carbon thin film synthesized by reactive filtered arc deposition ... 206 (2003) 339
Li, X., J. Zhu, P. Guo, J. Wang, Z. Qiu, R. Lu, H. Qiu, M. Li, D. Jiang, Y. Li and G. Zhang, Preliminary studies on the source of PM_{10} aerosol particles in the atmosphere of Shanghai City by analyzing single aerosol particles ... 210 (2003) 412
Li, Y., see Li, X. ... 210 (2003) 412
Li, Y.-M., see O'Rourke, B.E. ... 205 (2003) 378
Li, Y.-M., see Yan, J. ... 205 (2003) 382
Li, Y.M., see Watanabe, H. ... 205 (2003) 417
Li, Z., see Liu, W. ... 204 (2003) 62
Li, Z.F., see Hu, L. ... 206 (2003) 127
Lian, G., see Liu, W. ... 204 (2003) 62
Liang, J.H., M. Mayer, J. Roth and W. Eckstein, Computer simulation of chemical erosion of graphite due to hydrogen ion bombardment ... 202 (2003) 195
Liang, J.H. and S.L. Chiang, Characterization of BSi molecular ion implantation ... 206 (2003) 932
Librant, Z., see Jagielski, J. ... 206 (2003) 1097
Lieb, K.P., see Dhar, S. ... 205 (2003) 741
Lien, S.C., see Doyle, J.P. ... 206 (2003) 467
Liénard, E., see Laurent, G. ... 205 (2003) 546
Liesen, D., see Stöhlker, Th. ... 205 (2003) 156
Liesen, D., see Gumberidze, A. ... 205 (2003) 374
Liesen, D., see Ma, X. ... 205 (2003) 550
Liesen, D., see Bednarz, G. ... 205 (2003) 573
Liesen, D., see Dauvergne, D. ... 205 (2003) 773
Liesen, D., see Bräuning, H. ... 205 (2003) 826
Lievens, P., see Bastiaansen, J. ... 203 (2003) 158
Liljeby, L., see Kester, O. ... 204 (2003) 20
Liljeby, L., see Wolf, B.H. ... 204 (2003) 428
Lim, J.-W., K. Mimura, K. Miyake, M. Yamashita and M. Isshiki, Preparation of high-purity Cu films by non-mass separated ion beam deposition ... 206 (2003) 371
Lim, M.S., see van der Heide, P.A.W. ... 201 (2003) 413
Lim, S.H.N., see McKenzie, D.R. ... 206 (2003) 741
Lima, L.F.C.P., see Lugão, A.B. ... 208 (2003) 252
Limoge, Y., see Roma, G. ... 202 (2003) 120
Lindner, J.K.N., see Häberlen, M. ... 206 (2003) 916
Lindner, J.K.N., see Kögler, R. ... 206 (2003) 989
Lindroos, M., see Kester, O. ... 204 (2003) 20
Lindroos, M., see Jokinen, A. ... 204 (2003) 86
Lindroos, M., see Wenander, F. ... 204 (2003) 261
Lindroos, M., see Giles, T.J. ... 204 (2003) 497
Lindroos, M., the CERN ISOLDE team, the ISOLDE Collaboration and the REX-ISOLDE Collaboration, Future plans at ISOLDE ... 204 (2003) 730
Lindroth, A., see Beck, M. ... 204 (2003) 521
Litherland, A.E., I. Tomski and J.P. Doupé, Ion reactions for isobar separation in accelerator mass spectrometry 204 (2003) 720
Litvinov, Y., see Scheidenberger, C. ... 204 (2003) 119
Liu, B., C. Shi, Y. Wei and G. Hu, Influence of doping Y^{3+} on the photo- and thermoluminescence of $PbWO_4$ 201 (2003) 520
Liu, B.X., see Hu, L. ... 206 (2003) 127
Liu, B.X., see Cheng, X.Q. ... 207 (2003) 301
Liu, C., see Matsutani, T. ... 206 (2003) 343
Liu, C., T. Matsutani, T. Asanuma and M. Kiuchi, Structural, electrical and optical properties of indium tin oxide films prepared by low-energy oxygen-ion-beam assisted deposition ... 206 (2003) 348
Liu, J., see Shao, L. ... 206 (2003) 413
Liu, J., see Sun, Y. ... 209 (2003) 188
Liu, J., see Wang, Z.G. ... 209 (2003) 200
Liu, J., see Zhang, Q.X. ... 209 (2003) 367
Liu, M.T., see An, Z. ... 207 (2003) 268

Liu, W., Z. Li, X. Bai, Y. Wang, G. Lian, S. Zeng, S. Yan, B. Wang, Z. Zhao, T. Zhang, H. Tang, B. Yang, X. Guan and B. Cui, Current progress of nuclear astrophysics study and BRNBF at CIAE 204 (2003) 62
Liu, W., see Engel, S. 204 (2003) 416
Liu, X., see Feng, T. 206 (2003) 198
Liu, Y.W., see Anagnostopoulos, D.F. 205 (2003) 9
Liu, Z., see Zhang, X. 201 (2003) 551
Livingston, R.A., see Schweitzer, J.S. 207 (2003) 80
Lobanov, V.I., see Vodopianov, A.S. 201 (2003) 266
Lofy, P., see Schwarz, S. 204 (2003) 507
Loginov, V.N., see Efremov, A. 204 (2003) 368
Lo Giudice, A., see Vittone, E. 210 (2003) 159
Lo Giudice, A., G. Pratesi, P. Olivero, C. Paolini, E. Vittone, C. Manfredotti, F. Sammiceli and V. Rigato, Micro-IL and micro-PIXE studies of rich diamond meteorites at Legnaro nuclear microprobe 210 (2003) 429
Loiselet, M., see Gaelens, M. 204 (2003) 48
Lommel, B., see Geissel, H. 204 (2003) 71
Lommel, B., see Scheidenberger, C. 204 (2003) 119
Lommel, B., see Tahir, N.A. 204 (2003) 282
Lomsadze, R., see Gochitashvili, M. 205 (2003) 494
Lopata, V.J., J.W. Barnard, C.B. Saunders and T.M. Stepanik, New electron beam facility for R&D and production at acsion industries 208 (2003) 102
Lopatin, O.N., see Khaibullin, R.I. 206 (2003) 277
López-Martín, M.C., see Ager, F.J. 210 (2003) 401
Lopitaux, G., X. Coqueret, F. Boursereau and G. Larnac, Immediate and long-term effects of electron beam irradiation on nitrile-butadiene rubber 208 (2003) 500
Lorente, N., see Cafarelli, P. 203 (2003) 211
Loridon, J., see Raoux, A.-C. 207 (2003) 186
Lourenço, M.A., R.M. Gwilliam, G. Shao and K.P. Homewood, Dislocation engineered β-$FeSi_2$ light emitting diodes 206 (2003) 436
Lozeva, R., A. Banu, D. Balabanski, J. Gerl, M. Górska, I. Kojouharov, Y. Kopatch, S. Mandal, H. Schaffner and H-J.-J. Wollersheim, Investigation of scintillation detectors for relativistic heavy ion calorimetry 204 (2003) 678
Lu, H.F., C. Zhang and Q.Y. Zhang, Adatom, vacancy and sputtering yields of low energy Pt atoms impacts on Pt(1 1 1) by molecular dynamics simulation 206 (2003) 22
Lu, M., see Doyle, J.P. 206 (2003) 467
Lu, R., see Li, X. 210 (2003) 412
Lu, X., see Currell, F.J. 205 (2003) 230
Lu, X., H. Watanabe and F.J. Currell, Numerical simulation of the charge balance in an EBIT 205 (2003) 234
Lu, X., see Watanabe, H. 205 (2003) 239
Lu, Z.-T., see Müller, P. 204 (2003) 536
Lu, Z.-T., see Moore, I.D. 204 (2003) 701
Ludwig, K., see Postawa, Z. 202 (2003) 168
Lugao, A., see Chirinos, H. 208 (2003) 256
Lugão, A.B., E.C.L. Cardoso, L.F.C.P. Lima, B. Hustzler and S. Tokumoto, Characterization study of gamma-irradiated, high melt-strength polypropylene 208 (2003) 252
Lugosi, L. and L. Sarkadi, Theoretical investigation of the electron capture in collisions of O^{8+} ion with H and He atoms: Comparison between the Landau–Zener and the over-barrier models 205 (2003) 591
Luo, Z.M., see An, Z. 207 (2003) 268
Luther-Davies, B., see Elliman, R.G. 206 (2003) 427
Luthjens, L.H., see Frahn, M.S. 208 (2003) 405
Lutter, R., see Kester, O. 204 (2003) 20
Lutz, H.O., see Siegmann, B. 205 (2003) 629
Lutz, H.O., see Werner, U. 205 (2003) 639
Lyoussi, A., see Raoux, A.-C. 207 (2003) 186

Ma, X., see Stöhlker, Th. 205 (2003) 210
Ma, X., see Gumberidze, A. 205 (2003) 374

Ma, X., P.H. Mokler, G. Bednarz, F. Bosch, A. Gumberidze, C. Kozhuharov, D. Liesen, D. Sierpowski, Z. Stachura, Th. Stöhlker and A. Warczak, Electron–electron interaction in strong central fields studied by resonant transfer and excitation with two-photon processes in U^{91+} – H_2 collisions 205 (2003) 550
Ma, X., see Bednarz, G. 205 (2003) 573
Ma, X.X., K. Yukimura and T. Muraho, Ion sheath evolution and plasma replenishment inside an 80-mm-diameter pipe for plasma-based ion implantation and deposition 206 (2003) 787
Ma, X.X., K. Yukimura, T. Ikehata and Y. Miyagawa, Ion current on the inner surface of a pipe by plasma-based ion implantation and deposition 206 (2003) 813
Maazouz, M., see Maazouz, P.L. 203 (2003) 225
Maazouz, P.L., M. Maazouz and D.C. Jacobs, Trajectory-dependent energy- and charge-transfer in collisions of $Br^+(^3P_2)$ with Pt(111) 203 (2003) 225
MacAdam, K.B., see Böhm, S. 205 (2003) 370
MacFarlane, W.A., see Kiefl, R.F. 204 (2003) 682
Machado, L.D.B., see Ruiz, C.S.B. 208 (2003) 309
Machavariani, Z.S., see Defrance, P. 205 (2003) 405
Macri, P. and R.O. Barrachina, Extracting low-energy electron–atom scattering parameters from ionic measurements 205 (2003) 543
Madden, N., see Takács, E. 205 (2003) 144
Madden, N., see Matranga, M. 205 (2003) 244
Maeda, K., see Hida, A. 205 (2003) 736
Maeda, K., see Koguchi, Y. 206 (2003) 202
Maeda, K., see Hida, A. 209 (2003) 140
Maeda, K., see Meguro, T. 209 (2003) 170
Maegawa, S., see Abo, S. 210 (2003) 216
Maekawa, M., see Yamaki, T. 206 (2003) 254
Maekawa, M., Y. Hase, N. Shikazono and A. Tanaka, Induction of somatic instability in stable yellow leaf mutant of rice by ion beam irradiation 206 (2003) 579
Maggio, A., see Matranga, M. 205 (2003) 244
Maggiore, M., see Ciavola, G. 204 (2003) 410
Maheswaran, S., see Gao, F. 207 (2003) 63
Maier, H.J., see Köster, U. 204 (2003) 303
Maier, M., see Scheidenberger, C. 204 (2003) 119
Maier, M., see Savard, G. 204 (2003) 582
Maier-Komor, P., see Habs, D. 204 (2003) 739
Maillard, Y.-P., see Rzadkiewicz, J. 205 (2003) 128
Maillard, Y.-P., see Czarnota, M. 205 (2003) 133
Mainardi, R.T., T.S. Plivelic and P.A. Derosa, Assessment of pulse height selection methods for several spectrum shapes in radiation detection 201 (2003) 525
Mair, C., see Qayyum, A. 205 (2003) 714
Maire, R., see Ortega, R. 210 (2003) 455
Majewska, U., J. Braziewicz, M. Polasik, K. Słabkowska, I. Fijał, M. Jaskóła, A. Korman, S. Chojnacki and W. Kretschmer, Highly excited states of sulphur projectiles inside a carbon target 205 (2003) 799
Majima, T., see Yogo, A. 203 (2003) 141
Major, J., see Artru, X. 201 (2003) 243
Makarova, T., see Spemann, D. 210 (2003) 531
Makónyi, K., see Takács, E. 205 (2003) 144
Makovicka, L., see Guillerminet, C. 207 (2003) 124
Makuuchi, K., see Chirinos, H. 208 (2003) 256
Malerba, L., see Khrushcheva, O. 202 (2003) 68
Mallet, F., see Hoshino, M. 205 (2003) 568
Mandal, S., see Lozeva, R. 204 (2003) 678
Mändl, S., R. Sader, G. Thorwarth, D. Krause, H.-F. Zeilhofer, H.H. Horch and B. Rauschenbach, Biocompatibility of titanium based implants treated with plasma immersion ion implantation 206 (2003) 517
Mändl, S., D. Manova and B. Rauschenbach, Interplay of surface adsorption and preferential sputtering in metal plasma immersion ion implantation and deposition 206 (2003) 663
Mändl, S., J.W. Gerlach, W. Assmann and B. Rauschenbach, Thickness of ion implanted layers as determined by elastic recoil detection analysis and spectroscopic ellipsometry 206 (2003) 668

Mändl, S., see Rauschenbach, B. ... 206 (2003) 803
Manfredotti, C., see Vittone, E. ... 210 (2003) 159
Manfredotti, C., see Lo Giudice, A. ... 210 (2003) 429
Mangalaraj, D., see Sridharan, M. ... 201 (2003) 465
Manika, I., J. Maniks, K. Schwartz, M. Toulemonde and C. Trautmann, Hardening and long-range stress formation in lithium fluoride induced by energetic ions ... 209 (2003) 93
Maniks, J., see Manika, I. ... 209 (2003) 93
Manil, B., see Anagnostopoulos, D.F. ... 205 (2003) 9
Manil, B., H. Lebius, B.A. Huber, D. Cormier and A. Pesnelle, Fragmentation of thymidine and deoxyadenosine induced by slow multiply charged ions ... 205 (2003) 666
Manil, B., G.E. Ntamack, H. Lebius, B.A. Huber, D. Duft, T. Leisner, F. Chandezon and C. Guet, Charge emission and decay dynamics of highly charged clusters and micro-droplets ... 205 (2003) 684
Mann, R., see Stöhlker, Th. ... 205 (2003) 156
Mann, R., see Hagmann, S. ... 205 (2003) 207
Mann, R., see Siegmann, B. ... 205 (2003) 629
Manova, D., see Mändl, S. ... 206 (2003) 663
Mantraga, M., see Takács, E. ... 205 (2003) 144
Marangos, J.P., see Tisch, J.W.G. ... 205 (2003) 310
Marchal, J., A. Al-Ajili, J. Scott, D. Doak, M. Abdalla, R. Gwilliam, Ch. Fröjdh, V. O'Shea, K. Smith and M. Rahman, A new pixel sensor for uniformity control in ion implantation ... 206 (2003) 462
Märk, T.D., see Gstir, B. ... 205 (2003) 413
Märk, T.D., see Qayyum, A. ... 205 (2003) 714
Märk, T.D., see Farizon, B. ... 209 (2003) 9
Markotsis, M.G., see Burford, R.P. ... 208 (2003) 58
Marks, N.A., see McKenzie, D.R. ... 206 (2003) 741
Markushin, V.E., see Anagnostopoulos, D.F. ... 205 (2003) 9
Markwitz, A., V.J. Kennedy and H. Baumann, Formation of micrometer sized crater shaped pits in silicon by low-energy $^{22}Ne^{+}$ implantation and electron beam annealing ... 206 (2003) 179
Markwitz, A., see Johnson, P.B. ... 206 (2003) 1056
Markwitz, A., B. Barry, R.W. Gauldie and R.D. Roberts, Probing for heavy element impurities in the shell of the Pacific oyster, *Crassostrea gigas*, with nuclear microscopy ... 210 (2003) 418
Markwitz, A., see Kennedy, V.J. ... 210 (2003) 543
Marletta, G., see Satriano, C. ... 208 (2003) 287
Marmey, P., see Yang, Y. ... 207 (2003) 165
Marmey, P., M.C. Porté and Ch. Baquey, PVDF multifilament yarns grafted with polystyrene induced by γ-irradition: Influence of the grafting parameters on the mechanical properties ... 208 (2003) 429
Marques, C., see Alves, E. ... 207 (2003) 55
Marry, C., see Gibouin, S. ... 204 (2003) 240
Marstein, E.S., A.E. Gunns, U. Serincan, S. Jørgensen, A. Olsen, R. Turan and T.G. Finstad, Mechanisms of void formation in Ge implanted SiO_2 films ... 207 (2003) 424
Mårtensson-Pendrill, A.-M., see Beiersdorfer, P. ... 205 (2003) 62
Martiarena, M.L. and V.H. Ponce, Ionization by ion impact at grazing incidence on insulator surface ... 203 (2003) 62
Martin, F., see Hervieux, P.-A. ... 205 (2003) 677
Martin, G., see Doan, N.V. ... 202 (2003) 8
Martin, S., see Bernard, J. ... 205 (2003) 196
Martin, S., see Brédy, R. ... 205 (2003) 651
Martin, S., R. Brédy, J. Bernard, L. Chen, M.C. Buchet-Poulizac and A. Salmoun, Projectile energy loss and final charge state distribution in Xe^{q+}–C_{60} collisions at low energy ... 209 (2003) 265
Martínez-Dávalos, A., see Menchaca-Rocha, A. ... 201 (2003) 426
Martínez-Dávalos, A., see Menchaca-Rocha, A. ... 207 (2003) 356
Martins, M.C., see Santos, J.P. ... 205 (2003) 102
Martinson, I., see Bogdanovich, P. ... 205 (2003) 70
Marton, H., see Anagnostopoulos, D.F. ... 205 (2003) 9
Maruyama, T., see Yukimura, K. ... 206 (2003) 745
Marx, G., see Scheidenberger, C. ... 204 (2003) 119
Marx, G., see Sikler, G. ... 204 (2003) 482

Marzari, S., see Lettry, J. 204 (2003) 363
Masamune, S. and K. Yukimura, Ion implantation to inner surface of a cylinder 206 (2003) 682
Mascioni, M., J.M. Sands and G.R. Palmese, Real time in situ spectroscopic characterization of radiation induced cationic polymerization of glycidyl ethers 208 (2003) 353
Mase, H., see Ikehata, T. 206 (2003) 772
Mase, H., see Ikehata, T. 206 (2003) 782
Maslov, N., see Artru, X. 201 (2003) 243
Mason, M.B., see Tisch, J.W.G. 205 (2003) 310
Massare, D., see Bureau, H. 210 (2003) 434
Massey, S., D. Roy and A. Adnot, Study of natural ageing of polypropylene by X-ray photoelectron spectroscopy 208 (2003) 236
Masuda, H., see Morishita, Y. 205 (2003) 758
Masuda, H., see Iwai, Y. 205 (2003) 762
Masuno, S., see Oikawa, M. 210 (2003) 54
Matejcik, S., see Gstir, B. 205 (2003) 413
Mathad, R.D., see Diwan, P.K. 201 (2003) 389
Mathonnet, J.M., see Hitz, D. 205 (2003) 168
Mathot, G., see Demortier, G. 210 (2003) 169
Matos, M., see Scheidenberger, C. 204 (2003) 119
Matranga, M., M. Barbera, A. Maggio, G. Peres, S. Serio, E. Takács, E. Silver, J. Gillaspy, H. Schnopper, M. Laming, J. Beeman, E. Haller and N. Madden, EBIT diagnostics using X-ray spectra of highly ionized Ne 205 (2003) 244
Matsubayashi, N., see Saito, T. 206 (2003) 321
Matsuda, M., see Ichikawa, S. 204 (2003) 372
Matsuda, M., see Jeong, S.C. 204 (2003) 420
Matsuda, M., see Miyatake, H. 204 (2003) 746
Matsuda, S., see Sumita, T. 206 (2003) 448
Matsui, S., see Fujita, J. 206 (2003) 472
Matsui, S., see Kanda, K. 206 (2003) 880
Matsui, S., see Kitagawa, T. 206 (2003) 884
Matsui, S., see Miyauchi, K. 206 (2003) 893
Matsumoto, K., see Imaseki, H. 210 (2003) 42
Matsumoto, K., see Yamaguchi, H. 210 (2003) 292
Matsumoto, N., see Matsuyama, S. 210 (2003) 59
Matsumura, S., see Bae, In.-T. 206 (2003) 974
Matsumura, Y., see Takeuchi, M. 206 (2003) 259
Matsunami, N., M. Itoh, Y. Takai, M. Tazawa and M. Sataka, Ion beam modification of ZnO thin films on MgO 206 (2003) 282
Matsunami, N., M. Sataka, A. Iwase and S. Okayasu, Electronic excitation induced sputtering of insulating and semiconducting oxides by high energy heavy ions 209 (2003) 288
Matsuo, J., see Kitagawa, T. 201 (2003) 405
Matsuo, J., see Aoki, T. 202 (2003) 278
Matsuo, J., see Yamada, I. 206 (2003) 820
Matsuo, J., T. Seki, T. Aoki and I. Yamada, Atomistic study of cluster collision on solid surfaces 206 (2003) 838
Matsuo, J., see Nakai, A. 206 (2003) 842
Matsuo, J., see Birtcher, R.C. 206 (2003) 851
Matsuo, J., see Aoki, T. 206 (2003) 855
Matsuo, J., see Aoki, T. 206 (2003) 861
Matsuo, J., see Nakatsu, O. 206 (2003) 866
Matsuo, J., see Kitagawa, T. 206 (2003) 884
Matsuo, J., see Seki, T. 206 (2003) 902
Matsuo, Y., see Wada, M. 204 (2003) 570
Matsutani, T., see Ensinger, W. 206 (2003) 334
Matsutani, T., T. Asanuma, C. Liu, M. Kiuchi and T. Takeuchi, Comparison of surface morphologies of SiO_2 films prepared by ion-beam induced chemical vapor deposition and ion-beam assisted deposition 206 (2003) 343
Matsutani, T., see Liu, C. 206 (2003) 348
Mattera, L., see Moroni, R. 203 (2003) 29

Maunoury, L., see Gibouin, S. ... 204 (2003) 240
Matz, W., see Piatkowska, A. ... 206 (2003) 1052
Matzen, G., see Hennet, L. ... 207 (2003) 447
Matsuyama, S., K. Ishii, H. Yamazaki, R. Sakamoto, M. Fujisawa, Ts. Amartaivan, Y. Ohishi, M. Rodriguez, A. Suzuki, T. Kamiya, M. Oikawa, K. Arakawa and N. Matsumoto, Preliminary results of microbeam at Tohoku University ... 210 (2003) 59
Matsuyama, S., see Satoh, T. ... 210 (2003) 113
Matsuyama, S., see Oishi, Y. ... 210 (2003) 117
Matsuyama, S., see Harada, S. ... 210 (2003) 383
Maunoury, L., see Laurent, G. ... 205 (2003) 546
Mauron, O., see Rzadkiewicz, J. ... 205 (2003) 128
Mauron, O., see Czarnota, M. ... 205 (2003) 133
Maxwell, R.S. and B. Balazs, NMR measurements of residual dipolar couplings for lifetime assessments in γ-irradiated silica-PDMS composite materials ... 208 (2003) 199
May, M.J., see Beiersdorfer, P. ... 205 (2003) 173
Mayer, M., see Liang, J.H. ... 202 (2003) 195
Mayer, M., B. Diaz-Herrera and M. Schneider, Backscattering of ^{6}Li and ^{7}Li Ions from oxygen below 6 MeV ... 207 (2003) 263
Mazzei, R., D. Tadey, E. Smolko and C. Rocco, Radiation grafting of different monomers onto PP foils irradiated with a 25 MeV proton beam ... 208 (2003) 411
Mazzocchi, C., see Roeckl, E. ... 204 (2003) 53
McCormick, A.W., see Rehn, L.E. ... 206 (2003) 490
McCormick, A.W., see Birtcher, R.C. ... 206 (2003) 851
McCready, D.E., see Wang, C.M. ... 207 (2003) 1
McCready, D.E., see Jiang, W. ... 207 (2003) 453
McCulloch, D.G., see McKenzie, D.R. ... 206 (2003) 741
McCullough, R.W., see Currell, F.J. ... 205 (2003) 230
McCullough, R.W., D.M. Kearns, J.B. Greenwood and H.B. Gilbody, Studies of state selective electron capture processes by helium-like ions in H and H_2 ... 205 (2003) 581
McDaniel, F.D., see Doyle, B.L. ... 210 (2003) 98
McDaniel, F.D., see Rossi, P. ... 210 (2003) 123
McDaniel, F.D., see Vizkelethy, G. ... 210 (2003) 211
McGuire, J.H., see Merabet, H. ... 205 (2003) 399
McHargue, C., see Alves, E. ... 207 (2003) 55
McIntyre, N.S., see Tolstogouzov, A. ... 203 (2003) 198
McKenzie, D.R., R.N. Tarrant, M.M.M. Bilek, G. Pearce, N.A. Marks, D.G. McCulloch and S.H.N. Lim, Voltage dependence of cluster size in carbon films using plasma immersion ion implantation ... 206 (2003) 741
McLaughlin, B.M., see Müller, A. ... 205 (2003) 301
Medunić, Z., see Jakšić, M. ... 210 (2003) 176
Medunić, Z., M. Jakšić, Ž. Pastuović and N. Skukan, Temperature dependent TRIBIC in CZT detectors ... 210 (2003) 237
Meguro, T., see Hida, A. ... 205 (2003) 736
Meguro, T., see Koguchi, Y. ... 206 (2003) 202
Meguro, T., A. Hida, Y. Koguchi, S. Miyamoto, Y. Yamamoto, H. Takai, K. Maeda and Y. Aoyagi, Nanoscale transformation of sp^2 to sp^3 of graphite by slow highly charged ion irradiation ... 209 (2003) 170
Mehnert, R., see Bauer, F. ... 208 (2003) 267
Mehnert, R., see Scherzer, T. ... 208 (2003) 271
Mehnert, R., see Gläsel, H.-J. ... 208 (2003) 303
Mehnert, R., see Naumov, S. ... 208 (2003) 385
Meixner, M., see Elsholz, F. ... 202 (2003) 249
Melconian, D., D. Ashery, G. Ball, J.A. Behr, P. Bricault, B.A. Brown, M. Dombsky, K.P. Jackson, S. Fostner, A. Gorelov, M.N. Groves, S. Gu, M.R. Pearson, I.S. Towner, M. Trinczek and I. Vollrath, Measuring isospin mixing in ^{36}Ar using a polarized, neutral atom trap ... 204 (2003) 540
Melconian, D., see Levy, C.D.P. ... 204 (2003) 689
Meldrum, A., see Thevuthasan, S. ... 207 (2003) vii
Meldrum, A., L.A. Boatner and R.C. Ewing, Size effects in the irradiation-induced crystalline-to-amorphous transformation ... 207 (2003) 28
Meldrum, A., L.A. Boatner and K. Sorge, Microstructure and magnetic properties of Co nanoparticles in ion-implanted Al_2O_3 ... 207 (2003) 36

Melin, G., see Gammino, S. 205 (2003) 162
Melin, G., see Hitz, D. 205 (2003) 168
Melita, A.L., see Shchepunov, V.A. 204 (2003) 447
Mellon, M., see Rossi, P. 210 (2003) 123
Melnik, K.I., see Ponomarev, A.G. 201 (2003) 637
Mélot, M., Y. Ngono-Ravache and E. Balanzat, Very low temperature irradiation of aliphatic polymers: Role of radical migration on the creation of stable groups (O-127) 208 (2003) 345
Mélot, M., Y. Ngono-Ravache and E. Balanzat, Role of the irradiation temperature on the modifications of swift-heavy-ion irradiated polyethylene 209 (2003) 205
Members of the ISOLDE Collaboration, see Bennett, J.R.J. 204 (2003) 215
Menchaca-Rocha, A., R. Alfaro, E. Belmont-Moreno and A. Martínez-Dávalos, Interpretation of non-linear Si p–i–n detector response data to low-Z ions 201 (2003) 426
Menchaca-Rocha, A., J.I. Cabrera, R. Alfaro, E. Belmont-Moreno and A. Martínez-Dávalos, A new approach to deal with non-linearities in Si detector response 207 (2003) 356
Mendham, K.J., see Tisch, J.W.G. 205 (2003) 310
Ménez, B., see Bureau, H. 210 (2003) 434
Mera, Y., see Hida, A. 209 (2003) 140
Merabet, H., R. Bruch, S. Fülling, M. Bailey, A.L. Godunov, J.H. McGuire, A.N. Grum-Grzhimailo and K. Bartschat, Ionization–excitation magnetic sublevel cross sections for $He^+(2p)^2P^0$ states following fast electron and proton impact 205 (2003) 399
Merabet, H., see Bruch, R. 205 (2003) 488
Merlen, A., see Canut, B. 209 (2003) 335
Mertens, A., see Lederer, S. 203 (2003) 23
Mertens, A., see Wethekam, S. 203 (2003) 57
Mesjasz Przybyłowicz, J., see Przybyłowicz, W.J. 210 (2003) 343
Métayer, V., see Boizot, B. 210 (2003) 537
Metelitsa, O.N., see Andrukhovich, S.K. 207 (2003) 219
Métrich, N., see Bureau, H. 210 (2003) 434
Metwalli, E. and C.G. Pantano, Reactive ion etching of glasses: Composition dependence 207 (2003) 21
Meyer, D., see Ressler, J.J. 204 (2003) 141
Meyer, F., see Burgdörfer, J. 205 (2003) 690
Meyer, F.W., H.F. Krause and C.R. Vane, Site-resolved neutralization of slow singly and multiply charged ions during large-angle backscattering collisions with RbI(100) 203 (2003) 231
Meyer, F.W., H.F. Krause and C.R. Vane, Projectile neutralization in large-angle back-scattering of slow F^{q+}, Ne^{q+} and Ar^{q+} incident on RbI(100) 205 (2003) 700
Meynadier, P., see Adoui, L. 205 (2003) 341
Mialocq, J.-C., see Baldacchino, G. 209 (2003) 219
Michael, B.D., see Folkard, M. 210 (2003) 302
Michaud, M., see Levesque, P.L. 208 (2003) 225
Michel, A., see Girard, J.C. 209 (2003) 85
Michel, N., see Nazarewicz, W. 204 (2003) 1
Michelet-Habchi, C., see Incerti, S. 210 (2003) 92
Michelet-Habchi, C., Ph. Barberet, R.K. Dutta, A. Guiet-Bara, M. Bara and Ph. Moretto, Elemental maps in human allantochorial placental vessels cells: 1. High K^+ and acetylcholine effects 210 (2003) 354
Migula, P., see Przybyłowicz, W.J. 210 (2003) 343
Mikhailova, G.N., see Bayazitov, R.M. 206 (2003) 984
Milanez Silva, C., P. Varisco, A. Moehlecke, P.P. Fichtner, R.M. Papaléo and J. Eriksson, Processing of nano-holes and pores on SiO_2 thin films by MeV heavy ions 206 (2003) 486
Miller, R., see Kiefl, R.F. 204 (2003) 682
Milosavljevic, B.H. and J.K. Thomas, Radiation induced processes in the co-polymer, polyethylene–poly(vinyl alcohol) 208 (2003) 185
Milosavljević, M., see Dhar, S. 205 (2003) 741
Mimura, K., see Lim, J.-W. 206 (2003) 371
Mimura, R., H. Takayama and M. Takai, Nanometer resolusion three-dimensional microprobe RBS analyses by using a 200 kV focused ion beam system 210 (2003) 104
Minami, T., C.O. Reinhold and J. Burgdörfer, Quantum trajectory Monte Carlo method describing the coherent dynamics of highly charged ions 205 (2003) 818

Mineyama, D., see Yamauchi, T. ... 208 (2003) 149
Minqin, R., F. Watt, B. Tan Kwong Huat and B. Halliwell, Trace elemental distributions in induced atherosclerotic lesions using nuclear microscopy ... 210 (2003) 336
Minqin, R., see Ahmed, M. ... 210 (2003) 548
Mirabella, S., see De Salvador, D. ... 206 (2003) 922
Miranda, R.M.N., see Heck, C. ... 206 (2003) 601
Mirea, M., O. Bajeat, F. Clapier, S. Essabaa, L. Groza, F. Ibrahim, S. Kandri-Rody, A.C. Mueller, N. Pauwels and J. Proust, Exploratory analysis of a neutron-rich nuclei source based on photo-fission ... 201 (2003) 433
Mironov, V., M. Trinczek, A. Werdich, A.J. González Martinez, P. Guo, X. Zhang, J. Braun, J.R. Crespo López-Urrutia and J. Ullrich, Tests of a laser ion source at the Heidelberg electron beam ion trap ... 205 (2003) 183
Mironov, V., see Shirkov, G. ... 205 (2003) 215
Miroshnichenko, V.I., S.N. Mordik, V.V. Olshansky, K.N. Stepanov, V.E. Storizhko, B. Sulkio-Cleff and V. Voznyy, Possibility to increase RF ion source brightness for nuclear microprobe applications ... 201 (2003) 630
Miroshnichenko, V.I., see Ponomarev, A.G. ... 201 (2003) 637
Misaka, J., see Yamashita, H. ... 206 (2003) 889
Mishin, V.I., see Köster, U. ... 204 (2003) 303
Mishin, V.I., see Köster, U. ... 204 (2003) 347
Mishin, V.I., see Fedosseev, V.N. ... 204 (2003) 353
Mishinsky, G.V., see Zhechev, D. ... 204 (2003) 387
Misiuk, A., W. Wierzchowski, K. Wieteska, L. Bryja and W. Graeff, Erratum to "Synchrotron topography of high temperature–pressure treated silicon implanted with helium" [Nucl. Instr. and Meth. B 200 (2003) 358–362] ... 207 (2003) 233
Misra, D., see Kadhane, U. ... 205 (2003) 661
Misraki, J., see Raoux, A.-C. ... 207 (2003) 186
Missana, T., see Alonso, U. ... 207 (2003) 195
Mitamura, T., see Fujiwara, Y. ... 206 (2003) 870
Mitamura, T., see Miyauchi, K. ... 206 (2003) 893
Mitchell, J.B.A., J.L. LeGarrec, D. Travers, B.R. Rowe, R.J. Randler, A. Plech and M. Wulff, A new apparatus for the measurement of X-ray absorption by flame generated particles ... 207 (2003) 227
Mitomo, H., see Yoshii, F. ... 208 (2003) 320
Mitomo, H., see Yoshii, F. ... 208 (2003) 370
Mitsuhashi, T., see Sakaguchi, I. ... 206 (2003) 153
Mitsuishi, K., M. Song, K. Furuya, C.W. Allen, R.C. Birtcher and U. Dahmen, Effect of aspect ratio on phase changes of rare-gas precipitates in an Al matrix ... 206 (2003) 109
Mitsuo, A., T. Mori, Y. Setsuhara, S. Miyake and T. Aizawa, Mechanical properties of zirconium films prepared by ion-beam assisted deposition ... 206 (2003) 366
Mitsuo, A., see Akhajdenung, T. ... 207 (2003) 45
Mitsuoka, S., see Miyatake, H. ... 204 (2003) 746
Mitsusue, R., see Ikeda, M. ... 209 (2003) 154
Mittal, V.K., see Diwan, P.K. ... 201 (2003) 389
Mittig, W., see Geissel, H. ... 204 (2003) 71
Mittig, W., see Tahir, N.A. ... 204 (2003) 282
Miyagawa, S., see Miyagawa, Y. ... 206 (2003) 767
Miyagawa, Y., see Djurabekova, F.G. ... 206 (2003) 194
Miyagawa, Y., M. Ikeyama, S. Miyagawa and H. Nakadate, Computer simulation of plasma for plasma immersed ion implantation and deposition with bipolar pulses ... 206 (2003) 767
Miyagawa, Y., see Ma, X.X. ... 206 (2003) 813
Miyake, K., see Lim, J.-W. ... 206 (2003) 371
Miyake, S., see Mitsuo, A. ... 206 (2003) 366
Miyamoto, S., see Meguro, T. ... 209 (2003) 170
Miyamoto, Y., see Kusakabe, T. ... 205 (2003) 600
Miyao, M., see Murakami, Y. ... 206 (2003) 304
Miyao, M., see Sadoh, T. ... 206 (2003) 478
Miyashita, A., see Sumita, T. ... 206 (2003) 245
Miyata, T., see Sato, Y. ... 201 (2003) 571
Miyatake, H., see Koizumi, M. ... 204 (2003) 359
Miyatake, H., see Jeong, S.C. ... 204 (2003) 420

Miyatake, H., S. Arai, Y. Arakaki, Y. Fuchi, H. Ishiyama, S.C. Jeong, I. Katayama, H. Kawakami, K. Niki, T. Nomura, M. Okada, M. Oyaizu, Y. Takeda, M.H. Tanaka, E. Tojyo, M. Tomizawa, N. Yoshikawa, S. Abe, S. Hanashima, K. Horie, S. Ichikawa, H. Iimura, H. Ikezoe, T. Ishii, N. Ishizaki, A. Iwamoto, S. Kanda, M. Koizumi, M. Matsuda, S. Mitsuoka, Y. Nagame, T. Nakanoya, K. Nishio, I. Ohuchi, A. Osa, M. Oshima, M. Sataka, S. Takeuchi, H. Tayama, K. Tsukada, Y. Tsukihashi and T. Yoshida, The KEK–JAERI joint RNB project 204 (2003) 746
Miyauchi, K., see Kitagawa, T. 206 (2003) 884
Miyauchi, K., T. Kitagawa, N. Toyoda, S. Matsui, K. Mochiji, T. Mitamura and I. Yamada, Optimization of flux ratio of C_{60} molecule to Ar cluster ion for diamond-like carbon film deposition by NEXAFS measurement 206 (2003) 893
Miyawaki, N., see Fukuda, M. 210 (2003) 33
Miyoshi, T., see Sato, Y. 201 (2003) 571
Mizuma, K., see Oishi, Y. 210 (2003) 117
Mizuno, G., see Tanaka, T. 206 (2003) 817
Mizusawa, K. and T. Baba, The present situation of the irradiation application industry and irradiation facilities in Japan 208 (2003) 106
Mizutani, D., see Sakudo, N. 206 (2003) 687
Mizutani, M., see Abo, S. 210 (2003) 216
Mkrtchyan, A.H., see Grigoryan, L.Sh. 201 (2003) 25
Möbus, H., see Gläsel, H.-J. 208 (2003) 303
Mochiji, K., see Fujiwara, Y. 206 (2003) 870
Mochiji, K., see Miyauchi, K. 206 (2003) 893
Moehlecke, A., see Milanez Silva, C. 206 (2003) 486
Mohammed, S.S., see El-Naggar, A.M. 201 (2003) 595
Mohri, A., see Oshima, N. 205 (2003) 178
Moine, B., see Glasmacher, U.A. 209 (2003) 351
Mokler, P.H., see Brandau, C. 205 (2003) 66
Mokler, P.H., see Stöhlker, Th. 205 (2003) 156
Mokler, P.H., see Gumberidze, A. 205 (2003) 374
Mokler, P.H., see Ma, X. 205 (2003) 550
Mokler, P.H., see Bednarz, G. 205 (2003) 573
Mokler, P.H., see Dauvergne, D. 205 (2003) 773
Mokler, P.H., see Bräuning, H. 205 (2003) 826
Mokuno, Y., see Fukumi, K. 206 (2003) 353
Mokuno, Y., see Tojo, H. 206 (2003) 717
Mokuno, Y., see Kinomura, A. 210 (2003) 75
Moline, E., see Jokinen, A. 204 (2003) 86
Møller, S.P., see Uggerhøj, U.I. 207 (2003) 402
Möllers, B., C. Toepffer, M. Walter and G. Zwicknagel, Ion stopping in a magnetized anisotropic electron plasma 205 (2003) 285
Möllers, B., M. Walter, G. Zwicknagel, C. Carli and C. Toepffer, Drag force on ions in magnetized electron plasmas 207 (2003) 462
Moneta, M. and J. Czerbniak, Impact parameter dependent stopping power for highly charged ions 205 (2003) 808
Moneta, M. and J. Czerbniak, Stopping of swift ions under channeling condition: Influence of the projectile electronic structure on the effective charge 209 (2003) 246
Monteiro, T., see Alves, E. 206 (2003) 148
Monteiro, T., see Alves, E. 206 (2003) 1047
Monteiro, T., see Alves, E. 207 (2003) 55
Moon, J.H., see Hishita, S. 206 (2003) 171
Moore, I.D., see Müller, P. 204 (2003) 536
Moore, I.D., see Nieminen, A. 204 (2003) 563
Moore, I.D., K. Bailey, Z.-T. Lu, P. Müller, T.P. O'Connor and L. Young, Towards ultrahigh sensitivity analysis of ^{41}Ca 204 (2003) 701
Moore, R., see Nieminen, A. 204 (2003) 563
Moore, R.B., see Blaum, K. 204 (2003) 478
Moore, R.B., see Clark, J. 204 (2003) 487
Moore, R.B. and O. Gianfrancesco, Improving isotope separator performance by beam cooling 204 (2003) 557

Moores, D.L., Fully relativistic cross-sections for electron collisions with very highly stripped ions 205 (2003) 444
Morawski, M., see Reinert, T. 210 (2003) 395
Mordik, S.N., see Miroshnichenko, V.I. 201 (2003) 630
Morenzoni, E., see Uggerhøj, U.I. 207 (2003) 402
Moretto, Ph., see Incerti, S. 210 (2003) 92
Moretto, Ph., see Michelet-Habchi, C. 210 (2003) 354
Moretto-Capelle, P., see Bordenave-Montesquieu, A. 205 (2003) 74
Moretto-Capelle, P., see Laurent, G. 205 (2003) 546
Moretto-Capelle, P., see Rentenier, A. 205 (2003) 656
Morgenstern, R., see Berg, G.P. 204 (2003) 532
Morgenstern, R., see Knoop, S. 205 (2003) 560
Mori, H., T. Hirao, J.S. Laird, S. Onoda, T. Wakasa, T. Yamakawa, H. Itoh, T. Okamoto and Y. Koizumi, Modeling of transient charge collection induced by an angled single ion strike 206 (2003) 31
Mori, H., see Laird, J.S. 206 (2003) 36
Mori, H., see Arakawa, K. 206 (2003) 76
Mori, H., see Onoda, S. 206 (2003) 444
Mori, H., see Hirao, T. 206 (2003) 457
Mori, H., see Hirao, T. 210 (2003) 221
Mori, H., see Hirao, T. 210 (2003) 227
Mori, H., see Onoda, S. 210 (2003) 232
Mori, H., see Laird, J.S. 210 (2003) 243
Mori, T., see Mitsuo, A. 206 (2003) 366
Mori, T., see Yamaguchi, H. 210 (2003) 292
Moribayashi, K., T. Kagawa and D.E. Kim, X-ray emission from inner-shell ionization of Ne-like ions 205 (2003) 334
Moribayashi, K., Short wavelength X-ray emission generated by high intensity laser irradiation on Xe clusters 205 (2003) 346
Morishita, K., R. Sugano, B.D. Wirth and T. Diaz de la Rubia, Thermal stability of helium–vacancy clusters in iron 202 (2003) 76
Morishita, N., see Isoya, J. 206 (2003) 965
Morishita, T., see Yamaguchi, H. 206 (2003) 561
Morishita, T., H. Yamaguchi, K. Degi, N. Shikazono, Y. Hase, A. Tanaka and T. Abe, Dose response and mutation induction by ion beam irradiation in buckwheat 206 (2003) 565
Morishita, Y., Y. Kanai, K. Ando, R. Hutton, T. Brage, H.A. Torii, K. Komaki, H. Masuda, K. Ishii, F.B. Rosmej and Y. Yamazaki, Visible light spectroscopy of Ar^{6+} ions in high Rydberg states produced with a microcapillary target 205 (2003) 758
Morita, K. and A. Yoshii, Ion to neutral yield ratio in near 180° backscattering of keV He^+ ions from insulating targets 203 (2003) 239
Morita, K., H. Suzuki and K. Soda, Creation of hydrogen gas emitting function in proton conducting oxide ceramics by hydrogen implantation 206 (2003) 228
Morita, S., see Nakano, T. 210 (2003) 316
Moritz, G., see Geissel, H. 204 (2003) 71
Moriwaki, T., see Hayashi, N. 206 (2003) 1066
Morokhovskii, V.L., see Pugachov, D. 201 (2003) 55
Moroni, R., E. Oliveri and L. Mattera, Penning de-excitation of spin-polarised metastable He atoms on magnetic surfaces: Mg on Fe 203 (2003) 29
Moroz, F.V., see Andrighetto, A. 204 (2003) 267
Moroz, F.V., see Panteleev, V.N. 204 (2003) 382
Morozov, S.N., see Akhunov, Sh. 203 (2003) 146
Morozov, S.N. and U.Kh. Rasulev, Non-linear effects in Ta sputtering by Au_m ions 203 (2003) 192
Morris, G.D., see Kiefl, R.F. 204 (2003) 682
Morris, G.D., see Levy, C.D.P. 204 (2003) 689
Morrissey, D.J., B.M. Sherrill, M. Steiner, A. Stolz and I. Wiedenhoever, Commissioning the A1900 projectile fragment separator 204 (2003) 90
Morrissey, D.J., see Nolen, J.A. 204 (2003) 298
Morrissey, D.J., see Schwarz, S. 204 (2003) 507
Moscovitch, M., see Emfietzoglou, D. 209 (2003) 239
Moshammer, R., see Hagmann, S. 205 (2003) 207
Moshammer, R., see Kirchner, T. 205 (2003) 479

Motobayashi, T., RI beam factory project at RIKEN 204 (2003) 736
Motohashi, Y., see Shibata, T. 206 (2003) 139
Motohashi, Y., T. Kobayashi, S. Harjo, T. Sakuma, T. Shibata, M. Ishihara, S. Baba and T. Hoshiya, Radiation damage effects in superplastic 3Y-TZP irradiated with Zr ions 206 (2003) 144
Motono, M., see Tsuji, H. 206 (2003) 615
Motono, M., see Arai, N. 206 (2003) 629
Moulin, G., see Berger, P. 210 (2003) 519
Mozetic, M., see Piatkowska, A. 206 (2003) 1052
Mücklich, A., see Kögler, R. 206 (2003) 989
Mueller, A.C., see Lau, C. 204 (2003) 246
Mueller, A.C., see Mirea, M. 201 (2003) 433
Mueller, A.C., Future high intensity ISOL facilities: selected current R&D topics and possible synergies with other projects 204 (2003) 752
Mueller, A.C., see Essabaa, S. 204 (2003) 780
Mühle, C., see Geissel, H. 204 (2003) 71
Mukaigawa, S., S. Kanno, K. Takaki and T. Fujiwara, Measurements of heat flux distribution toward substrate by means of the $LiNbO_3$ interferometer, and electron density in a capacitively coupled rf discharge plasma 206 (2003) 777
Mukaigawa, S., see Takaki, K. 206 (2003) 794
Mukha, I., see Roeckl, E. 204 (2003) 53
Mukherjee, M., see Blaum, K. 204 (2003) 331
Mukherjee, M., see Sikler, G. 204 (2003) 482
Mukumoto, Y., see Ono, F. 206 (2003) 295
Mukumoto, Y., see Iwase, A. 209 (2003) 323
Muller, A., see Essabaa, S. 204 (2003) 780
Müller, A., see Brandau, C. 205 (2003) 66
Müller, A., see Kieslich, S. 205 (2003) 99
Müller, A., see Shi, W. 205 (2003) 201
Müller, A., see Schippers, S. 205 (2003) 297
Müller, A., R.A. Phaneuf, A. Aguilar, M.F. Gharaibeh, A.S. Schlachter, I. Álvarez, C. Cisneros, G. Hinojosa and B.M. McLaughlin, Photoionization of C^{2+} ions 205 (2003) 301
Müller, A., see Schnell, M. 205 (2003) 367
Müller, A., see Böhm, S. 205 (2003) 370
Müller, A., see Jacobi, J. 205 (2003) 410
Müller, A., see Knopp, H. 205 (2003) 433
Müller, C., A.B. Voitkiv and N. Grün, Multiphoton pair production by a highly charged ion in an intense laser field 205 (2003) 306
Müller, C., see Voitkiv, A.B. 205 (2003) 504
Müller, C., see Ono, F. 206 (2003) 295
Müller, C., A. Benyagoub, M. Lang, R. Neumann, K. Schwartz, M. Toulemonde and C. Trautmann, SFM study of ion-induced hillocks on LiF exposed to thermal and optical annealing 209 (2003) 175
Müller, C., see Iwase, A. 209 (2003) 323
Muller, D., see D'Orléans, C. 209 (2003) 316
Müller, M., see Fink, D. 209 (2003) 310
Müller, P., L.-B. Wang, K. Bailey, G.W.F. Drake, X. Du, J. Greene, A.M. Heinz, R.J. Holt, D. Henderson, R.V. Janssens, C.-L. Jiang, C. Law, Z.-T. Lu, I.D. Moore, T.P. O'Connor, R.C. Pardo, M. Paul, T. Pennington, K.E. Rehm and J.P. Schiffer, Towards measuring the charge radius of ^{6}He and ^{8}He 204 (2003) 536
Müller, P., see Moore, I.D. 204 (2003) 701
Müller, W., see Kutschera, W. 204 (2003) 705
Mulliah, D., D. Christopher, S.D. Kenny and R. Smith, Nanoscratching of silver (100) with a diamond tip . 202 (2003) 294
Münzenberg, G., see Geissel, H. 204 (2003) 71
Münzenberg, G., see Scheidenberger, C. 204 (2003) 119
Münzenberg, G., see Tahir, N.A. 204 (2003) 282
Münzenberg, G., see Winkler, M. 204 (2003) 454
Münzenberg, G., see Savard, G. 204 (2003) 582
Münzenberg, G., Conference summary 204 (2003) 789
Muraho, T., see Yukimura, K. 206 (2003) 745

Muraho, T., see Ma, X.X. ... 206 (2003) 787
Muraho, T., see Yukimura, K. ... 206 (2003) 791
Murakami, T., see Sato, Y. ... 201 (2003) 571
Murakami, T., see Azuma, T. ... 205 (2003) 779
Murakami, Y., I. Tsunoda, H. Kido, A. Kenjo, T. Sadoh, M. Miyao and T. Yoshitake, Enhanced solid-phase growth of β-$FeSi_2$ by pre-amorphization ... 206 (2003) 304
Muramatsu, H., see Watanabe, S. ... 206 (2003) 399
Muramatsu, M., see Sato, Y. ... 201 (2003) 571
Muramoto, T., N. Hirotani, K. Itabasi, A. Harada and Y. Yamamura, MD simulation of surface smoothing due to cluster impact ... 202 (2003) 289
Muranaka, T., see Azuma, T. ... 205 (2003) 779
Murao, S., see Kurosawa, M. ... 210 (2003) 468
Mustapha, B. and J.A. Nolen, Optimization of ISOL targets based on Monte-Carlo simulations of ion release curves ... 204 (2003) 286
Muthig, A., see Bednarz, G. ... 205 (2003) 573
Muto, T., see Karataev, P. ... 201 (2003) 140
Muto, T., see Karataev, P. ... 201 (2003) 201

Nablo, S.V., J. Chrusciel, D.A. Cleghorn and I. Rangwalla, Developments in low energy electron beam machinery and processes ... 208 (2003) 90
Nagai, M., see Ninomiya, S. ... 209 (2003) 233
Naga Raju, G.J., see Bhuloka Reddy, S. ... 207 (2003) 345
Nagame, Y., see Ichikawa, S. ... 204 (2003) 372
Nagame, Y., see Miyatake, H. ... 204 (2003) 746
Nagaoka, S., see Okuyama, Y. ... 206 (2003) 543
Nagasawa, N., see Yoshii, F. ... 208 (2003) 320
Nagasawa, N., see Yoshii, F. ... 208 (2003) 370
Nagasawa, N., see Hai, L. ... 208 (2003) 466
Nagata, S., see Takahiro, K. ... 206 (2003) 206
Nagata, S., see Wei, P. ... 206 (2003) 233
Nagata, S., see Takahiro, K. ... 206 (2003) 639
Nagatomi, S., see Yamaguchi, H. ... 206 (2003) 561
Nageswara Rao, S.V.S., L.N.S. Prakash Goteti and A.P. Pathak, Quantum description for the effects of strained layered superlattices on channeling radiation ... 202 (2003) 312
Naheed, N., M.S. Jahan and M. Ridley, Measurements of free radicals over a period of 4.5 years in gamma-irradiated ultra-high molecular weight polyethylene ... 208 (2003) 204
Naito, M., see Ishimaru, M. ... 206 (2003) 994
Naito, M., see Iida, T. ... 210 (2003) 37
Nakabushi, H., see Sato, Y. ... 201 (2003) 571
Nakadate, H., see Miyagawa, Y. ... 206 (2003) 767
Nakagawa, M., see Ikeda, M. ... 209 (2003) 154
Nakagawa, S.T., M. Iwatani, T. Ono, Y. Hada and G. Betz, Crystallographic analysis of amorphization caused by ion irradiation ... 202 (2003) 149
Nakagawa, S.T., Crystallographic analysis of the amorphization caused by ion irradiation: Self-irradiation ... 206 (2003) 13
Nakagawa, T., see Shirkov, G. ... 205 (2003) 215
Nakagawa, Y., see Doyle, J.P. ... 206 (2003) 467
Nakai, A., T. Aoki, T. Seki, J. Matsuo, G.H. Takaoka and I. Yamada, Modeling of surface smoothing process by cluster ion beam irradiation ... 206 (2003) 842
Nakai, H., see Yamauchi, T. ... 208 (2003) 149
Nakai, H., see Yamauchi, T. ... 208 (2003) 489
Nakai, Y., see Wada, M. ... 204 (2003) 570
Nakai, Y., see Endo, A. ... 205 (2003) 187
Nakai, Y., see Hoshino, M. ... 205 (2003) 568
Nakai, Y., see Kusakabe, T. ... 205 (2003) 600
Nakai, Y., see Iwai, Y. ... 205 (2003) 762
Nakai, Y., T. Ikeda, Y. Kanai, T. Kambara, N. Fukunishi, T. Azuma, K. Komaki, Y. Takabayashi and Y. Yamazaki, Resonant coherent excitation of 94 MeV/u Ar^{17+} ions channeling through a Si crystal ... 205 (2003) 784

Nakajima, H., see Kurotobi, K. . . . 206 (2003) 532
Nakajima, K., M. Nakamura, T. Tsujioka and K. Kimura, Energy loss of 15-keV Ar^{q+} ($q = 1ndash3$) ions reflected from a KCl(001) surface . . . 205 (2003) 705
Nakajima, T., see Kurosawa, M. . . . 210 (2003) 464
Nakamura, K., see Yokota, K. . . . 206 (2003) 386
Nakamura, K., M. Ando and H. Sugai, Photon-enhanced secondary electron emission at target in plasma immersion ion implantation . . . 206 (2003) 798
Nakamura, M., see Nakajima, K. . . . 205 (2003) 705
Nakamura, N., D. Kato and S. Ohtani, X-ray spectroscopy of high-Z highly charged ions with the Tokyo EBIT . . . 205 (2003) 57
Nakamura, N., see Endo, A. . . . 205 (2003) 187
Nakamura, T., see Wada, M. . . . 204 (2003) 570
Nakamura, T., H. Tanabe, T. Hitomi and M. Satoh, Electrical properties of the regrown implantation-induced amorphous layer on (1 $\bar{1}$ 0 0)- and (1 1 $\bar{2}$ 0)-oriented 6H-SiC . . . 206 (2003) 956
Nakamura, Y., see Fukuda, M. . . . 210 (2003) 33
Nakanishi, Y., A. Wakahara, H. Okada, A. Yoshida, T. Ohshima, H. Itoh, S. Nakao, K. Saito and Y.T. Kim, Effects of implantation conditions on the luminescence properties of Eu-doped GaN . . . 206 (2003) 1033
Nakano, H., see Doyle, J.P. . . . 206 (2003) 467
Nakano, S., see Wang, Q. . . . 206 (2003) 118
Nakano, S., see Ogiso, H. . . . 206 (2003) 157
Nakano, T., T. Kanai, S. Furukawa, K. Shibayama, S. Sato, T. Hiraoka, S. Morita and H. Tsujii, CT based treatment planning system of proton beam therapy for ocular melanoma . . . 210 (2003) 316
Nakanoya, T., see Miyatake, H. . . . 204 (2003) 746
Nakanoya, T., see Haraguchi, M. . . . 206 (2003) 313
Nakanoya, T., see Saito, T. . . . 206 (2003) 321
Nakao, A., M. Iwaki and Y. Yokoyama, Potassium ion implantation into glassy carbon . . . 206 (2003) 211
Nakao, A., see Kobayashi, T. . . . 206 (2003) 1110
Nakao, H., see Yamashita, H. . . . 206 (2003) 889
Nakao, H., see Yamashita, H. . . . 206 (2003) 898
Nakao, M., see Iwai, Y. . . . 205 (2003) 762
Nakao, S., see Nakanishi, Y. . . . 206 (2003) 1033
Nakashima, K., see Abe, K. . . . 206 (2003) 960
Nakashima, K., see Eryu, O. . . . 206 (2003) 969
Nakatani, Y., see Yamashita, H. . . . 206 (2003) 898
Nakatsu, O., J. Matsuo, K. Omoto, T. Seki, G. Takaoka and I. Yamada, Titanium-dioxide film formation using gas cluster ion beam assisted deposition technique . . . 206 (2003) 866
Nakazawa, T., V. Grismanovs, D. Yamaki, Y. Katano and T. Aruga, Disordering in Li_2TiO_3 irradiated with high energy ions . . . 206 (2003) 166
Nakonieczny, M., see Przybyłowicz, W.J. . . . 210 (2003) 343
Namba, H., see Koizumi, H. . . . 206 (2003) 1124
Nankov, N., see Scheidenberger, C. . . . 204 (2003) 119
Napolitani, E., see De Salvador, D. . . . 206 (2003) 922
Nara, T., see Fukuda, M. . . . 210 (2003) 33
Naramoto, H., see Ookawa, R. . . . 206 (2003) 175
Naramoto, H., see Takahiro, K. . . . 206 (2003) 206
Naramoto, H., see Wei, P. . . . 206 (2003) 233
Naramoto, H., see Yamamoto, S. . . . 206 (2003) 268
Naramoto, H., see Vacik, J. . . . 206 (2003) 395
Naramoto, H., see Takahiro, K. . . . 206 (2003) 639
Naramoto, H., see Kitazawa, S.-i. . . . 206 (2003) 952
Narayandass, Sa.K., see Sridharan, M. . . . 201 (2003) 465
Narumi, I., see Ohnuki, T. . . . 210 (2003) 378
Narumi, K., see Hirata, K. . . . 206 (2003) 47
Narumi, K., see Takahiro, K. . . . 206 (2003) 206
Narumi, K., see Wei, P. . . . 206 (2003) 233
Narumi, K., see Vacik, J. . . . 206 (2003) 395
Narumi, K., see Kitazawa, S.-i. . . . 206 (2003) 952

Nasef, M.M. and K.Z.M. Dahlan, Electron irradiation effects on partially fluorinated polymer films: Structure–property relationships ... 201 (2003) 604
Nasonov, N. and A. Noskov, On the parametric X-rays along an emitting particle velocity ... 201 (2003) 67
Nasonov, N., see Kubankin, A. ... 201 (2003) 97
Nasonov, N., see Adischev, Y.N. ... 201 (2003) 114
Nastasi, M., see Afanasyev-Charkin, I.V. ... 206 (2003) 736
Nastasi, M., see Verda, R.D. ... 206 (2003) 927
Nastasi, M., see Swadener, J.G. ... 206 (2003) 937
Nathuram, R., see Singh, H. ... 207 (2003) 257
Natsuhori, M., see Wada, S. ... 206 (2003) 553
Naumenko, G., see Karataev, P. ... 201 (2003) 133
Naumenko, G., see Karataev, P. ... 201 (2003) 140
Naumenko, G., see Karataev, P. ... 201 (2003) 201
Naumenko, G.A., see Aleinik, A.N. ... 201 (2003) 34
Naumenko, G.A., Synchrotron radiation contributions to optical diffraction radiation measurements ... 201 (2003) 184
Naumenko, G.A., see Aleinik, A.N. ... 201 (2003) 191
Naumenko, G.A., see Bogomazova, E.A. ... 201 (2003) 276
Naumov, S., see Scherzer, T. ... 208 (2003) 271
Naumov, S., I. Janovský, W. Knolle and R. Mehnert, Distonic dimer radical cation of 2,3-dihydrofuran: Quantum chemical calculations and low-temperature EPR results ... 208 (2003) 385
Nayak, D., see Gibouin, S. ... 204 (2003) 240
Nazarewicz, W., J. Dobaczewski, N. Michel, M. Płoszajczak, M.V. Stoitsov and J. Terasaki, Prospects for new science with EM devices ... 204 (2003) 1
Nazarov, A., see Ganchenkova, M. ... 202 (2003) 107
Neill, P.A., see Beiersdorfer, P. ... 205 (2003) 173
Nelms, N., see Anagnostopoulos, D.F. ... 205 (2003) 9
Nemeş, E., see Grosu, E. ... 208 (2003) 220
Nersisyan, H.B., Scattering of magnetized electrons by a moving heavy ion ... 205 (2003) 276
Nersisyan, H.B. and A.K. Das, Energy loss of high energy ion beams in a disordered plasma ... 205 (2003) 281
Neu, R., see Hutton, R. ... 205 (2003) 114
Neudert, A., see Schwarz, S. ... 204 (2003) 474
Neugebauer, R., T. Jalowy, J.A.M. Pereira, E.F. da Silveira, H. Rothard, M. Toulemonde and K.O. Groeneveld, The influence of energy density inside the nuclear track on the secondary-ion emission ... 209 (2003) 62
Neumann, H., see Chassé, T. ... 206 (2003) 377
Neumann, R., see Ono, F. ... 206 (2003) 295
Neumann, R., see Siwy, Z. ... 208 (2003) 143
Neumann, R., see Schwartz, K. ... 209 (2003) 73
Neumann, R., see Müller, C. ... 209 (2003) 175
Neumann, R., see Iwase, A. ... 209 (2003) 323
Neumann, R., see Glasmacher, U.A. ... 209 (2003) 351
Neumann, R., see Lang, M. ... 209 (2003) 357
Neumayr, J., see Sikler, G. ... 204 (2003) 482
Neumayr, J., see Szerypo, J. ... 204 (2003) 512
Neumayr, J., see Habs, D. ... 204 (2003) 739
Neyts, E., M. Yan, A. Bogaerts and R. Gijbels, PIC-MC simulation of an RF capacitively coupled Ar/H_2 discharge ... 202 (2003) 300
Ngono-Ravache, Y., see Mélot, M. ... 208 (2003) 345
Ngono-Ravache, Y., see Mélot, M. ... 209 (2003) 205
Nguyen, H., see Brédy, R. ... 205 (2003) 191
Ni, L., see Lettry, J. ... 204 (2003) 251
Nie, J., see Wang, S. ... 201 (2003) 475
Nie, R., see He, W.-H. ... 201 (2003) 449
Niedernostheide, F.-J., see Zmeck, M. ... 210 (2003) 164
Niemann, D., see Robin, A. ... 205 (2003) 719
Nieminen, A., P. Campbell, J. Billowes, D.H. Forest, J.A.R. Griffith, J. Huikari, A. Jokinen, I.D. Moore, R. Moore, G. Tungate and J. Äystö, Cooling and bunching of ion beams for collinear laser spectroscopy ... 204 (2003) 563
Nieminen, P., see Uusitalo, J. ... 204 (2003) 638

Nieuwjaer, N., see Cafarelli, P. 203 (2003) 211
Nigro, M., see Bisello, D. 210 (2003) 142
Niigaki, M., see Oshima, N. 205 (2003) 178
Niki, K., see Miyatake, H. 204 (2003) 746
Nilsson, T., see Kester, O. 204 (2003) 20
Nilsson, T., see Bergmann, U.C. 204 (2003) 220
Ninomiya, S., S. Gomi, C. Imada, M. Nagai, M. Imai and N. Imanishi, Cluster-ion emission from semiconductive chemical compounds under MeV-energy heavy ion bombardment 209 (2003) 233
Nishigaito, S., see Wada, M. 206 (2003) 557
Nishii, J., see Fukumi, K. 206 (2003) 353
Nishijima, T., S.M. Hearne, D.N. Jamieson, T. Ohshima, K.K. Lee and H. Itoh, Radiation damage on 6H-SiC Schottky diodes 210 (2003) 196
Nishikawa, H., see Hattori, M. 210 (2003) 272
Nishikawa, H., see Souno, T. 210 (2003) 277
Nishimura, Y., R. Ohkawa, H. Oka, H. Akamatsu, K. Azuma and M. Yatsuzuka, Uniform coating of thick DLC film on three-dimensional substrates 206 (2003) 696
Nishimura, Y., see Oka, Y. 206 (2003) 700
Nishimura, Y., see Homma-Takeda, S. 210 (2003) 368
Nishio, K., see Miyatake, H. 204 (2003) 746
Nishio, K., see Iwai, Y. 205 (2003) 762
Nishiyama, F., see Ookawa, R. 206 (2003) 175
Nishiyama, F., see Takahiro, K. 206 (2003) 206
Nitta, N and M. Taniwaki, Novel nano-fabrication technique utilizing ion beam 206 (2003) 482
Nociforo, C., see Shchepunov, V.A. 204 (2003) 447
Noda, K., see Wada, M. 204 (2003) 570
Nofal, M., see Hagmann, S. 205 (2003) 207
Nolden, F., see Brandau, C. 205 (2003) 66
Nolen, J.A., see Geissel, H. 204 (2003) 71
Nolen, J.A., see Mustapha, B. 204 (2003) 286
Nolen, J.A., C.B. Reed, A. Hassanein, V.J. Novick, P. Plotkin and J.R. Specht, Development of windowless liquid lithium targets for fragmentation and fission of 400-kW uranium beams 204 (2003) 293
Nolen, J.A., C.B. Reed, A. Hassanein, V.J. Novick, P. Plotkin, J.R. Specht, D.J. Morrissey, J.H. Ottarson and B.M. Sherrill, An adjustable thickness Li/Be target for fragmentation of 4-kW heavy ion beams 204 (2003) 298
Nolen, J.A., see Ostroumov, P.N. 204 (2003) 433
Nomachi, M., see Yamamoto, H. 210 (2003) 388
Nomura, T., see Jeong, S.C. 204 (2003) 420
Nomura, T., see Miyatake, H. 204 (2003) 746
Nord, J., K. Nordlund, J. Keinonen and K. Albe, Molecular dynamics study of defect formation in GaN cascades 202 (2003) 93
Nordlander, P., see Dunning, F.B. 203 (2003) 69
Nordlund, K., see Nord, J. 202 (2003) 93
Nordlund, K., see Peltola, J. 202 (2003) 132
Nordlund, K., see Enrique, R.A. 202 (2003) 206
Nordlund, K., see Krasheninnikov, A.V. 202 (2003) 224
Nordlund, K., see Pomoell, J. 206 (2003) 18
Nordlund, K., see Peltola, J. 206 (2003) 61
Nordlund, K., see Frantz, J. 206 (2003) 66
Nordlund, K., J. Tarus, J. Keinonen, S.E. Donnelly and R.C. Birtcher, Atomic fingers, bridges and slingshots: formation of exotic surface structures during ion irradiation of heavy metals 206 (2003) 189
Normand, D., see Adoui, L. 205 (2003) 341
Nörtershäuser, W., A. Dax, G. Ewald, I. Katayama, R. Kirchner, H.-J. Kluge, T. Kühl, R. Sanchez, I. Tanihata, M. Tomaselli, H. Wang and C. Zimmermann, A setup for high-resolution isotope shift measurements on unstable lithium isotopes 204 (2003) 644
Noskov, A., see Nasonov, N. 201 (2003) 67
Novgorodov, A.F., see Beyer, G.J. 204 (2003) 225
Novick, V.J., see Nolen, J.A. 204 (2003) 293
Novick, V.J., see Nolen, J.A. 204 (2003) 298

Novotny Jr., J., see Guillerminet, C. ... 207 (2003) 124
Nozaki, T., see Doyama, M. ... 202 (2003) 64
Ntamack, G.E., see Manil, B. ... 205 (2003) 684
Numazawa, S., see Kudo, H. ... 207 (2003) 283
Nurushev, S.B., see Vodopianov, A.S. ... 201 (2003) 266
Nurutdinov, R.M., see Bayazitov, R.M. ... 206 (2003) 984
Nussbaumer, R., see Levy, C.D.P. ... 204 (2003) 689
Nyman, G., see Kester, O. ... 204 (2003) 20
Nyman, G., see Geissel, H. ... 204 (2003) 71
Nyman, G., see Wolf, B.H. ... 204 (2003) 428

Obert, J., see Lau, C. ... 204 (2003) 246
Obert, J., see Lau, C. ... 204 (2003) 257
Obert, J., see Essabaa, S. ... 204 (2003) 780
Ochiai, Y., see Fujita, J. ... 206 (2003) 472
O'Connor, T.P., see Müller, P. ... 204 (2003) 536
O'Connor, T.P., see Moore, I.D. ... 204 (2003) 701
Oda, K., see Yamauchi, T. ... 208 (2003) 149
Oda, K., see Yamauchi, T. ... 208 (2003) 489
Odahara, S., see Doyle, J.P. ... 206 (2003) 467
Oehr, C., Plasma surface modification of polymers for biomedical use ... 208 (2003) 40
Oehr, C., see Hegemann, D. ... 208 (2003) 281
Oganessian, V.R., V.V. Trofimov, J. Vetter, M. Danziger, B. Dörschel and D. Hermsdorf, A method to determine the opening process for pores of latent ion tracks in polymer using electrolytic etching ... 208 (2003) 166
Oganessian, Yu.Ts., see Rodin, A.M. ... 204 (2003) 114
Oganessian, Yu.Ts., V.A. Shchepunov, S.N. Dmitriev, M.G. Itkis, G.G. Gulbekyan, M.V. Khabarov, V.V. Bekhterev, S.L. Bogomolov, A.A. Efremov, S.V. Pashenko, S.V. Stepantsov, A.V. Yeremin, M.I. Yavor and A.G. Kalimov, The project of the mass separator of atomic nuclei produced in heavy ion induced reactions ... 204 (2003) 606
Ogawa, H., see Sato, Y. ... 201 (2003) 571
Ogawa, Y., see Okuno, H. ... 201 (2003) 259
Ogiso, H., see Wang, Q. ... 206 (2003) 118
Ogiso, H., S. Nakano and J. Akedo, Abnormal distribution of defects introduced into MgO single crystals by MeV ion implantation ... 206 (2003) 157
Ohashi, K., see Ito, Y. ... 209 (2003) 362
Ohashi, N., see Sakaguchi, I. ... 206 (2003) 153
Ohashi, O., see Wang, A. ... 206 (2003) 219
Ohi, A., see Sumita, T. ... 206 (2003) 448
Ohi, A., see Isoya, J. ... 206 (2003) 965
Ohishi, Y., see Matsuyama, S. ... 210 (2003) 59
Ohkawa, R., see Nishimura, Y. ... 206 (2003) 696
Ohki, Y., see Hattori, M. ... 210 (2003) 272
Ohki, Y., see Souno, T. ... 210 (2003) 277
Ohmido, N., see Kitamura, S. ... 206 (2003) 548
Ohmura, Y., see Sakudo, N. ... 206 (2003) 687
Ohnishi, M., see Yokota, K. ... 206 (2003) 386
Ohnuki, T., F. Sakamoto, N. Kozai, T. Ozaki, I. Narumi, A.J. Francis, H. Iefuji, T. Sakai, T. Kamiya, T. Satoh and M. Oikawa, Application of micro-PIXE technique to uptake study of cesium by *Saccharomyces cerevisiae* ... 210 (2003) 378
Ohnuki, T., F. Sakamoto, N. Kozai, T. Sakai, T. Kamiya, T. Satoh and M. Oikawa, Micro-pixe study on sorption behaviors of cobalt by lichen biomass ... 210 (2003) 407
Ohnuki, T., see Kozai, N. ... 210 (2003) 513
Ohsawa, A., see Okuno, H. ... 201 (2003) 259
Ohshima, H., see Sasa, K. ... 210 (2003) 48
Ohshima, N., see Wada, M. ... 204 (2003) 570
Ohshima, T., see Sumita, T. ... 206 (2003) 448

Ohshima, T., see Isoya, J. 206 (2003) 965
Ohshima, T., K.K. Lee, S. Onoda, T. Kamiya, M. Oikawa, J.S. Laird, T. Hirao and H. Itoh, Observation of transient current induced in silicon carbide diodes by ion irradiation 206 (2003) 979
Ohshima, T., see Nakanishi, Y. 206 (2003) 1033
Ohshima, T., see Nishijima, T. 210 (2003) 196
Ohshima, T., K.K. Lee, S. Onoda, T. Kamiya, M. Oikawa, J.S. Laird, T. Hirao and H. Itoh, Evaluation of the characteristics of silicon carbide diodes using transient-IBIC technique 210 (2003) 201
Ohshima, T., see Kamiya, T. 210 (2003) 206
Ohshima, T., see Lee, K.K. 210 (2003) 489
Ohtani, S., see Wada, M. 204 (2003) 570
Ohtani, S., see Nakamura, N. 205 (2003) 57
Ohtani, S., see O'Rourke, B.E. 205 (2003) 378
Ohtani, S., see Watanabe, H. 205 (2003) 417
Ohtsubo, T., see Scheidenberger, C. 204 (2003) 119
Ohtsuka, M., see Okamura, M. 206 (2003) 574
Ohuchi, I., see Miyatake, H. 204 (2003) 746
Ohya, K. and T. Ishitani, Simulation study of secondary electron images in scanning ion microscopy 202 (2003) 305
Ohya, K., Comparative study of target atomic number dependence of ion induced and electron induced secondary electron emission 206 (2003) 52
Ohyama, H., see Wada, M. 204 (2003) 570
Ohyama-Yamaguchi, T. and A. Ichimura, Orientation dependence of multiple electron transfer in collisions of slow highly charged ions with rare gas dimers 205 (2003) 620
Oikawa, M., see Ohshima, T. 206 (2003) 979
Oikawa, M., see Fukuda, M. 210 (2003) 33
Oikawa, M., T. Kamiya, M. Fukuda, S. Okumura, H. Inoue, S. Masuno, S. Umemiya, Y. Oshiyama and Y. Taira, Design of a focusing high-energy heavy ion microbeam system at the JAERI AVF cyclotron 210 (2003) 54
Oikawa, M., see Matsuyama, S. 210 (2003) 59
Oikawa, M., see Satoh, T. 210 (2003) 113
Oikawa, M., see Oishi, Y. 210 (2003) 117
Oikawa, M., see Ohshima, T. 210 (2003) 201
Oikawa, M., see Kamiya, T. 210 (2003) 206
Oikawa, M., see Hattori, M. 210 (2003) 272
Oikawa, M., see Souno, T. 210 (2003) 277
Oikawa, M., see Harada, S. 210 (2003) 383
Oikawa, M., see Ohnuki, T. 210 (2003) 378
Oikawa, M., see Ohnuki, T. 210 (2003) 407
Oikawa, M., see Kozai, N. 210 (2003) 513
Oinonen, M., see Kester, O. 204 (2003) 20
Oinonen, M., see Köster, U. 204 (2003) 303
Oinonen, M., see Köster, U. 204 (2003) 347
Oishi, Y., K. Hotta, K. Ishii, Y. Komori, S. Matsuyama, H. Yamazaki, Ts. Amartivan, M. Rodriguez, K. Katoh, D. Izukawa, K. Mizuma, T. Satoh, T. Kamiya, T. Sakai, K. Arakawa, M. Saidoh and M. Oikawa, 3D imaging of elemental distributions using multi-angle RBS 2D-data 210 (2003) 117
Oka, H., see Nishimura, Y. 206 (2003) 696
Oka, T., see Hama, Y. 208 (2003) 123
Oka, T., H. Kanbe, F. Yatagai and Y. Hama, Changes in the chemical structure and the mechanical properties of single-site polyethylene induced by ion-beam irradiation 208 (2003) 181
Oka, Y., M. Tao, Y. Nishimura, K. Azuma, E. Fujiwara and M. Yatsuzuka, Properties of thick DLC films prepared by plasma-based ion implantation and deposition using combined RF and H.V. pulses 206 (2003) 700
Okabayashi, N., K. Komaki and Y. Yamazaki, Secondary ion emission from a water and fluorine adsorbed Si(100) surface irradiated with electrons and highly charged ions 205 (2003) 725
Okada, H., see Nakanishi, Y. 206 (2003) 1033
Okada, K., see Wada, M. 204 (2003) 570
Okada, M., see Miyatake, H. 204 (2003) 746
Okamoto, T., see Mori, H. 206 (2003) 31
Okamoto, T., see Onoda, S. 206 (2003) 444

Okamoto, T., see Onoda, S. ... 210 (2003) 232
Okamura, M., N. Yasuno, M. Ohtsuka, A. Tanaka, N. Shikazono and Y. Hase, Wide variety of flower-color and -shape mutants regenerated from leaf cultures irradiated with ion beams ... 206 (2003) 574
Okayasu, S., see Matsunami, N. ... 209 (2003) 288
Okazaki, N., see Doyle, J.P. ... 206 (2003) 467
Okubo, N., N. Umeda, Y. Takeda and N. Kishimoto, Enhancement of metal-nanoparticle precipitation by co-irradiation of high-energy heavy ions and laser in silica glass ... 206 (2003) 610
Okubo, N., see Kishimoto, N. ... 206 (2003) 634
Okubo, N., see Amekura, H. ... 206 (2003) 1101
Okumura, S., see Fukuda, M. ... 210 (2003) 33
Okumura, S., see Oikawa, M. ... 210 (2003) 54
Okuno, H., S. Anami, A. Enomoto, K. Furukawa, K. Kakihara, T. Kamitani, Y. Ogawa, A. Ohsawa, T. Oogoe, T. Suwada, R. Hamatsu, K. Sasahara, T. Fujita, K. Umemori, K. Yoshida, V. Ababiy, A.P. Potylitsin and I.E. Vnukov, Experimental study of positron production from a W single crystal by the KEK 8-GeV electron linac beam ... 201 (2003) 259
Okuno, K., see Kaneyasu, T. ... 205 (2003) 624
Okuyama, Y., M. Sato, S. Nagaoka, H. Kawakami, Y. Suzuki and M. Iwaki, Neurite outgrowth on fluorinated polyimide film micropatterned by ion irradiation ... 206 (2003) 543
Olin, A., see Engel, S. ... 204 (2003) 416
Oliva, A., see Barone, P. ... 209 (2003) 68
Oliveri, E., see Moroni, R. ... 203 (2003) 29
Olivero, P., see Vittone, E. ... 210 (2003) 159
Olivero, P., see Lo Giudice, A. ... 210 (2003) 429
Olivo, M., see Kiefl, R.F. ... 204 (2003) 682
Olivo, M., see Levy, C.D.P. ... 204 (2003) 689
Olsen, A., see Marstein, E.S. ... 207 (2003) 424
Olshansky, V.V., see Miroshnichenko, V.I. ... 201 (2003) 630
Olson, R.E., see Fiol, J. ... 205 (2003) 474
Olson, R.E., see Knoop, S. ... 205 (2003) 560
Omeich, M., see Essabaa, S. ... 204 (2003) 780
Omoto, K., see Nakatsu, O. ... 206 (2003) 866
O'Neil, J.P., see Powell, J. ... 204 (2003) 440
Ono, F., Y. Hamatani, Y. Mukumoto, S. Komatsu, N. Ishikawa, Y. Chimi, A. Iwase, T. Kambara, C. Müller and R. Neumann, Modification of Fe–Ni Invar alloys by high-energy ion beams ... 206 (2003) 295
Ono, F., see Iwase, A. ... 209 (2003) 323
Ono, K., see Arakawa, K. ... 206 (2003) 76
Ono, K., K. Arakawa and R.C. Birtcher, Intermittent rapid motion of helium bubbles in Cu during irradiation with high energy self-ions ... 206 (2003) 114
Ono, T., see Nakagawa, S.T. ... 202 (2003) 149
Onoda, S., see Mori, H. ... 206 (2003) 31
Onoda, S., see Laird, J.S. ... 206 (2003) 36
Onoda, S., T. Hirao, J.S. Laird, H. Mori, H. Itoh, T. Wakasa, T. Okamoto and Y. Koizumi, Displacement damage degradation of ion-induced charge in Si pin photodiode ... 206 (2003) 444
Onoda, S., see Hirao, T. ... 206 (2003) 457
Onoda, S., see Ohshima, T. ... 206 (2003) 979
Onoda, S., see Ohshima, T. ... 210 (2003) 201
Onoda, S., see Kamiya, T. ... 210 (2003) 206
Onoda, S., see Hirao, T. ... 210 (2003) 221
Onoda, S., see Hirao, T. ... 210 (2003) 227
Onoda, S., T. Hirao, J.S. Laird, H. Mori, H. Itoh, T. Wakasa, T. Okamoto and Y. Koizumi, Estimation of fast transient current degradation analyzed by non-ionizing energy loss ... 210 (2003) 232
Onoda, S., see Laird, J.S. ... 210 (2003) 243
Ononye, L.C., see Alves, E. ... 207 (2003) 55
Onozaki, Y., see Takeuchi, M. ... 206 (2003) 259
Oogoe, T., see Okuno, H. ... 201 (2003) 259
Oohashi, G., see Suzuki, Y. ... 206 (2003) 538

Ookawa, R., K. Takahiro, K. Kawatsura, F. Nishiyama, S. Yamamoto and H. Naramoto, Structure of amorphized C_{60} films studied by Raman spectroscopy and X-ray photoelectron spectroscopy 206 (2003) 175
Ookawa, R., see Takahiro, K. 206 (2003) 206
Orbán, A., T.J.M. Zouros and B. Sulik, Wave-function effects in the formation of ^2S, $^2P_-$ and $^2P_+$ states in collisions of lithium-like O^{5+} ions with He target 205 (2003) 464
Orberger, B., J. Pasava, J.P. Gallien, L. Daudin and P. Trocellier, Se, As, Mo, Ag, Cd, In, Sb, Pt, Au, Tl, Re traces in biogenic and abiogenic sulfides from Black Shales (Selwyn Basin, Yukon territories, Canada): A nuclear microprobe study 210 (2003) 441
Orelovitch, O.L., see Apel, P.Yu. 209 (2003) 329
Orlic, I., see Cornelius, I.M. 210 (2003) 191
Orlic, I., R. Siegele, K. Hammerton, R.A. Jeffree and D.D. Cohen, Nuclear microprobe analysis of lead profile in crocodile bones 210 (2003) 330
Orlov, S.Yu., see Andrighetto, A. 204 (2003) 267
Orlov, S.Yu., see Panteleev, V.N. 204 (2003) 382
O'Rourke, B.E., see Currell, F.J. 205 (2003) 230
O'Rourke, B.E., see Watanabe, H. 205 (2003) 239
O'Rourke, B.E., F.J. Currell, H. Kuramoto, Y.-M. Li, S. Ohtani, X.-M. Tong and H. Watanabe, Dielectronic recombination in highly charged He-like ions 205 (2003) 378
O'Rourke, B.E., see Watanabe, H. 205 (2003) 417
Ortega, R., G. Devès, B. Fayard, M. Salomé and J. Susini, Combination of synchrotron radiation X-ray microprobe and nuclear microprobe for chromium and chromium oxidation states quantitative mapping in single cells 210 (2003) 325
Ortega, R., A. Suda and G. Devès, Nuclear microprobe imaging of gallium nitrate in cancer cells 210 (2003) 364
Ortega, R., G. Devès and R. Maire, Nuclear microprobe analysis of uranium-rich speleothems: Methodological aspects 210 (2003) 455
Osa, A., see Koizumi, M. 204 (2003) 359
Osa, A., see Ichikawa, S. 204 (2003) 372
Osa, A., see Jeong, S.C. 204 (2003) 420
Osa, A., see Miyatake, H. 204 (2003) 746
Osaka, M., see Kasukabe, Y. 206 (2003) 390
Osborne, C.J., see Svensson, C.E. 204 (2003) 660
Oseki, T., see Hayashi, K. 206 (2003) 403
Osetsky, Yu.N. and D.J. Bacon, Atomic-scale modelling of primary damage and properties of radiation defects in metals 202 (2003) 31
O'Shea, P.G., see Shkvarunets, A.G. 201 (2003) 153
O'Shea, V., see Marchal, J. 206 (2003) 462
Oshima, A., see Sato, Y. 208 (2003) 231
Oshima, A. and M. Washio, Radiation-induced phenomena in ethylene-co-tetrafluoroethylene polymer Temperature and LET effects 208 (2003) 380
Oshima, A., see Sato, K. 208 (2003) 424
Oshima, H., see Furuno, K. 210 (2003) 459
Oshima, M., see Koizumi, M. 204 (2003) 359
Oshima, M., see Miyatake, H. 204 (2003) 746
Oshima, N., T.M. Kojima, M. Niigaki, A. Mohri, K. Komaki, Y. Iwai and Y. Yamazaki, Development of a cold HCI source for ultra-slow collisions 205 (2003) 178
Oshiyama, Y., see Oikawa, M. 210 (2003) 54
Osipowicz, T., see Watt, F. 210 (2003) 14
Osipowicz, T., see Zmeck, M. 210 (2003) 164
Osipowicz, T., see Seng, H.L. 210 (2003) 483
Ospald, F., see Habs, D. 204 (2003) 739
Ossi, P.M., Structural changes induced by swift heavy ions in non-metallic compounds 209 (2003) 55
Ostroumov, P.N., M.P. Kelly, A.A. Kolomiets, J.A. Nolen, M. Portillo, K.W. Shepard and N.E. Vinogradov, A post-accelerator for the US rare isotope accelerator facility 204 (2003) 433
Ostrowski, A.N., see Kester, O. 204 (2003) 20
Otáhal, B., see Plaček, V. 208 (2003) 448
Otani, T., see Kitahara, N. 206 (2003) 999

Otero, G., see Sánchez, E.A. 203 (2003) 41
Ottarson, J., see Schwarz, S. 204 (2003) 507
Ottarson, J.H., see Nolen, J.A. 204 (2003) 298
Ottewell, D., see Engel, S. 204 (2003) 416
Otto, G., G. Hobler and K. Gärtner, Defect characterization of low-energy recoil events in silicon using classical molecular dynamics simulation 202 (2003) 114
Otto, G., see Hobler, G. 206 (2003) 81
Oubre, C., see Dunning, F.B. 203 (2003) 69
Ovsyannikov, V.P., see Kentsch, U. 205 (2003) 260
Ovsyannikov, V.P., see Kentsch, U. 205 (2003) 266
Oyaizu, M., see Jeong, S.C. 204 (2003) 420
Oyaizu, M., see Miyatake, H. 204 (2003) 746
Oyama, H., see Huang, M. 205 (2003) 119
Oyama, H., see Iwai, Y. 205 (2003) 762
Ozafrán, M.J., M.E. Debray, R. Eusebi, A.J. Kreiner, M.E. Vázquez, A. Burlón and P. Stoliar, K X-ray production induced by ^{12}C on several elements 201 (2003) 317
Ozaki, T., see Ohnuki, T. 210 (2003) 378
Özdemir, E., see Özdemir, S. 208 (2003) 395
Özdemir, S., E. Özdemir, R. Tunca, R. Hazıroğlu, M. Şen, Ö. Kantoğlu and O. Güven, In vivo biocompatibility studies of poly(*n*-vinyl 2-pyrrolidone/itaconic acid) hydrogels synthesized by γ-rays 208 (2003) 395
Öztürk, Z., see Yazici, A.N. 201 (2003) 503

Pacquet, J.Y., see Gibouin, S. 204 (2003) 240
Pacquet, J.Y., see Jardin, P. 204 (2003) 377
Padalko, D.V., see Bogomazova, E.A. 201 (2003) 276
Padella, F., see Baccaro, S. 208 (2003) 191
Pagano, A., see Lanzanò, G. 205 (2003) 841
Pagano, A., see Lanzanò, G. 209 (2003) 212
Page, R., see Uusitalo, J. 204 (2003) 638
Page, R.D., A.N. Andreyev, D.E. Appelbe, P.A. Butler, S.J. Freeman, P.T. Greenlees, R.-D. Herzberg, D.G. Jenkins, G.D. Jones, P. Jones, D.T. Joss, R. Julin, H. Kettunen, M. Leino, P. Rahkila, P.H. Regan, J. Simpson, J. Uusitalo, S.M. Vincent and R. Wadsworth, The GREAT spectrometer 204 (2003) 634
Pagura, C., see Tolstogouzov, A. 203 (2003) 198
Pajek, M., see Rzadkiewicz, J. 205 (2003) 128
Pajek, M., see Czarnota, M. 205 (2003) 133
Pajek, M., see Banaś, D. 205 (2003) 139
Pakarinen, J., see Uusitalo, J. 204 (2003) 638
Pakes, C.I., see Yang, C. 210 (2003) 186
Palitsin, V.V., see Belykh, S.F. 203 (2003) 164
Palitsin, V.V., see Belykh, S.F. 203 (2003) 172
Palmese, G.R., see Mascioni, M. 208 (2003) 353
Palumbo, M.E., see Baratta, G.A. 209 (2003) 283
Panca Putra, T.Y.S., see Kitazawa, S.-i. 206 (2003) 952
Pantano, C.G., see Metwalli, E. 207 (2003) 21
Pantano, D., see Bisello, D. 210 (2003) 142
Pantea, M., see Kester, O. 204 (2003) 20
Panteleev, V.N., see Andrighetto, A. 204 (2003) 267
Panteleev, V.N., A. Andrighetto, A.E. Barzakh, D.V. Fedorov, V.S. Ivanov, F.V. Moroz, S.Yu. Orlov, M.D. Seliverstov, L. Stroe, L. Tecchio and Yu.M. Volkov, High temperature electron beam ion source for the production of single charge ions of most elements of the Periodic Table 204 (2003) 382
Paolini, C., see Vittone, E. 210 (2003) 159
Paolini, C., see Lo Giudice, A. 210 (2003) 429
Papadopoulos, C.T., see Kokkoris, M. 201 (2003) 623
Papaléo, R.M., R. Leal, C. Trautmann and E.M. Bringa, Cratering by MeV–GeV ions as a function of angle of incidence 206 (2003) 7
Papaléo, R.M., see Milanez Silva, C. 206 (2003) 486
Papaleo, R.P., see Fink, D. 209 (2003) 310

Pappalardo, A., see Cosentino, L. 209 (2003) 340
Pardo, R.C., see Müller, P. 204 (2003) 536
Parente, F., see Santos, J.P. 205 (2003) 102
Parhomenko, Yu.N., see Gerasimenko, N.N. 206 (2003) 644
Park, C.H., J.Y. Lee, S. Im and T.G. Kim, n-ZnO/p-Si photodiodes fabricated using ion-beam induced isolation technique 206 (2003) 432
Park, D., see Sakaguchi, I. 206 (2003) 153
Parks, L.A., see Cleland, M.R. 208 (2003) 66
Parks, L.A., see Cleland, M.R. 208 (2003) 74
Partes, K., see Köster, U. 204 (2003) 347
Parys, P., see Krása, J. 205 (2003) 355
Pasava, J., see Orberger, B. 210 (2003) 441
Pashenko, S.V., see Oganessian, Yu.Ts. 204 (2003) 606
Passard, C., see Raoux, A.-C. 207 (2003) 186
Passler, G., see Wendt, K.D.A. 204 (2003) 325
Pastuović, Ž., see Medunić, Z. 210 (2003) 237
Paszkowski, M.L., see Lekki, J. 210 (2003) 472
Patelli, A., see Alonso, U. 207 (2003) 195
Pathak, A.P., see Nageswara Rao, S.V.S. 202 (2003) 312
Paúl, A., see Alves, L.C. 210 (2003) 495
Paul, H. and A. Schinner, Judging the reliability of stopping power tables and programs for heavy ions 209 (2003) 252
Paul, M., see Müller, P. 204 (2003) 536
Pauly, N., A. Dubus and M. Rösler, Influence of the charge changing processes on proton induced electron emission from polycrystalline aluminium 203 (2003) 36
Pauly, N., see Dubus, A. 205 (2003) 730
Pauwels, N., see Mirea, M. 201 (2003) 433
Pauwels, N., see Lau, C. 204 (2003) 246
Pavluchenko, M.N., see Gerasimenko, N.N. 206 (2003) 299
Pavluchenko, M.N., see Gerasimenko, N.N. 206 (2003) 644
Peřina, V., see Krása, J. 205 (2003) 355
Pešić, Z.D., J. Anton, J.H. Bremer, V. Hoffmann, N. Stolterfoht, Gy. Vikor and R. Schuch, Inelastic energy loss in large angle scattering of Ar^{9+} ions from Au(1 1 1) crystal 203 (2003) 96
Pešić, Z.D., see Stolterfoht, N. 203 (2003) 246
Pearce, G., see McKenzie, D.R. 206 (2003) 741
Pearson, M., see Levy, C.D.P. 204 (2003) 689
Pearson, M.R., see Melconian, D. 204 (2003) 540
Peden, C.H.F., see Wang, C.M. 207 (2003) 1
Peeva, A., R. Koegler and W. Skorupa, Visualization of vacancy type defects in the $R_P/2$ region of ion implanted and annealed silicon 206 (2003) 71
Peeva, A., see Angelov, Ch. 206 (2003) 907
Peko, B.L., see DeFazio, J.N. 201 (2003) 453
Pekola, J.P., see Huang, W.X. 204 (2003) 592
Pelicon, P., see Razpet, A. 201 (2003) 535
Pelletier, J., see Lacoste, A. 208 (2003) 260
Peltola, J., K. Nordlund and J. Keinonen, Molecular dynamics simulation method for calculating fluence-dependent range profiles 202 (2003) 132
Peltola, J., K. Nordlund and J. Keinonen, Heat spike effect on the straggling of cluster implants 206 (2003) 61
Peng, D.Q., X.D. Bai, X.W. Chen and Q.G. Zhou, The air oxidation behavior of lanthanum ion implanted zirconium at 500 °C 201 (2003) 589
Peng, P., see Tian, X.B. 206 (2003) 673
Peng, P., see Tang, D.L. 206 (2003) 808
Pennington, T., see Müller, P. 204 (2003) 536
Peräjärvi, K., see Bergmann, U.C. 204 (2003) 220
Peräjärvi, K., see Lau, C. 204 (2003) 257
Peräjärvi, K., U.C. Bergmann, V.N. Fedoseyev, A. Joinet, U. Köster, C. Lau, J. Lettry, H. Ravn, M. Santana-Leitner and The ISOLDE Collaboration, Studies of release properties of ISOLDE targets 204 (2003) 272
Peräjärvi, K., see Köster, U. 204 (2003) 303

Peräjärvi, K., see Köster, U. ... 204 (2003) 347
Perdikakis, G., see Kokkoris, M. ... 201 (2003) 623
Perdrix, M., see Adoui, L. ... 205 (2003) 341
Pereira, J.A.M., see Neugebauer, R. ... 209 (2003) 62
Pereira, S., see Alves, E. ... 206 (2003) 1042
Pereira-Conca, J., J. Benlliure and K.-H. Schmidt, Comprehensive investigation of the angular transmission in magnetic spectrometers ... 204 (2003) 517
Peres, G., see Matranga, M. ... 205 (2003) 244
Perevozchikov, V.V., see Rodin, A.M. ... 204 (2003) 114
Perru, O., see Lau, C. ... 204 (2003) 257
Perru, O., see Essabaa, S. ... 204 (2003) 780
Perry, S.S., see van der Heide, P.A.W. ... 201 (2003) 413
Pesnelle, A., see Manil, B. ... 205 (2003) 666
Péter, Á., see Kling, A. ... 206 (2003) 653
Petersson, M., see Jokinen, A. ... 204 (2003) 86
Petite, G., see Boizot, B. ... 210 (2003) 537
Petrov, A., see Stolterfoht, N. ... 203 (2003) 246
Petrov, A., see Fink, D. ... 209 (2003) 310
Petrovich, C., see Andrighetto, A. ... 204 (2003) 205
Pfandzelter, R., see Bernhard, T. ... 203 (2003) 111
Pfeifer, M., see Krása, J. ... 205 (2003) 355
Pfeiffer, B., see Lau, C. ... 204 (2003) 257
Pfeiffer, B., see Köster, U. ... 204 (2003) 347
Phalet, T., see Beck, M. ... 204 (2003) 521
Phanchaisri, B., see Yu, L.D. ... 206 (2003) 586
Phaneuf, R.A., see Schippers, S. ... 205 (2003) 297
Phaneuf, R.A., see Müller, A. ... 205 (2003) 301
Phang, J., see Zmeck, M. ... 210 (2003) 164
Piaskowy, J., see Postawa, Z. ... 202 (2003) 168
Piatkowska, A., J. Jagielski, M. Kopcewicz, W. Matz, A. Zalar and M. Mozetic, Structural properties of ion beam mixed tungsten/steel layers ... 206 (2003) 1052
Piatkowska, A., see Jagielski, J. ... 206 (2003) 1097
Piazza, F., see Golanski, A. ... 206 (2003) 731
Picciotto, A., see Gammino, S. ... 209 (2003) 345
Piechaczek, A., see Batchelder, J.C. ... 204 (2003) 625
Pieck, S., see Dörschel, B. ... 207 (2003) 154
Pietsch, H., see Akapiev, G.N. ... 208 (2003) 133
Pillon, M., see Fattibene, P. ... 201 (2003) 480
Pin, S., see Baldacchino, G. ... 209 (2003) 219
Pinheiro, T., J.N. Silva, L.C. Alves and P. Filipe, Iron deposition in skin of patients with haemochromatosis ... 210 (2003) 373
Pinnington, E.H., see Träbert, E. ... 205 (2003) 83
Pinnington, E.H., see Beiersdorfer, P. ... 205 (2003) 173
Pino, E.S., see Ruiz, C.S.B. ... 208 (2003) 309
Pinto, J.V., see Alves, E. ... 206 (2003) 148
Pio, C.A., see Almeida, S.M. ... 207 (2003) 434
Pipeleers, B., S.M. Hogg and A. Vantomme, Influence of the implantation angle on the generation of defects for Er implanted GaN ... 206 (2003) 95
Piticu, I., see Ciortea, C. ... 205 (2003) 789
Pivovarov, Yu.L., see Andersen, H.H. ... 201 (2003) 1
Pivovarov, Yu.L., see Dolgikh, V.A. ... 201 (2003) 253
Plaček, V., B. Bartoníček, V. Hnát and B. Otáhal, Dose rate effects in radiation degradation of polymer-based cable materials ... 208 (2003) 448
Plachke, D., see Robin, A. ... 209 (2003) 259
Plaksin, O.A., V.A. Stepanov, P.V. Demenkov, P.A. Stepanov, V.A. Skuratov and N. Kishimoto, Radioluminescence of alumina during proton and heavy ion irradiation ... 206 (2003) 1083
Plaß, W.R., see Winkler, M. ... 204 (2003) 454
Plaß, W.R., see Sikler, G. ... 204 (2003) 482

Plech, A., see Mitchell, J.B.A. 207 (2003) 227
Plettner, C., see Roeckl, E. 204 (2003) 53
Plivelic, T.S., see Mainardi, R.T. 201 (2003) 525
Ploszajczak, M., see Nazarewicz, W. 204 (2003) 1
Plotkin, P., see Nolen, J.A. 204 (2003) 293
Plotkin, P., see Nolen, J.A. 204 (2003) 298
Plunien, G., see Shabaev, V.M. 205 (2003) 20
Plunien, G., see Andreev, O.Yu. 205 (2003) 25
Plyasheshnikov, A.V., see Aharonian, F.A. 201 (2003) 217
Pochet, P., Modeling of aging in plutonium by molecular dynamics 202 (2003) 82
Podlech, H., see Kester, O. 204 (2003) 20
Podsobljaev, A.P., see Kolninov, O.V. 208 (2003) 364
Poirier, R., V. Avalos, S. Dannefaer, F. Schiettekatte and S. Roorda, Divacancies in proton irradiated silicon: Comparison of annealing mechanisms studied with infrared spectroscopy and positron annihilation 206 (2003) 85
Poizat, J.-C., see Artru, X. 201 (2003) 243
Poizat, J.C., see Dauvergne, D. 205 (2003) 773
Polak, W., see Lekki, J. 210 (2003) 472
Polasik, M., see Słabkowska, K. 205 (2003) 123
Polasik, M., see Rzadkiewicz, J. 205 (2003) 128
Polasik, M., see Czarnota, M. 205 (2003) 133
Polasik, M., see Majewska, U. 205 (2003) 799
Pole, D.J., see Hossain, S. 205 (2003) 484
Politis, M.F., see Hervieux, P.-A. 205 (2003) 677
Pomoell, J., A.V. Krasheninnikov, K. Nordlund and J. Keinonen, Stopping of energetic ions in carbon nanotubes 206 (2003) 18
Ponce, V.H., see Sánchez, E.A. 203 (2003) 41
Ponce, V.H., see Martiarena, M.L. 203 (2003) 62
Ponce, V.H., see Sarasola, A. 203 (2003) 104
Ponomarev, A.G., K.I. Melnik, V.I. Miroshnichenko, V.E. Storizhko and B. Sulkio-Cleff, Resolution limit of probe-forming systems with magnetic quadrupole lens triplets and quadruplets 201 (2003) 637
Popok, V.N., see Khaibullin, R.I. 206 (2003) 1115
Popok, V.N., S.V. Prasalovich and E.E.B. Campbell, Nanohillock formation by impact of small low-energy clusters with surfaces 207 (2003) 145
Popovic, D.B., see Smith, A.C.H. 205 (2003) 421
Porté, M.-C., see Yang, Y. 207 (2003) 165
Porté, M.C., see Marmey, P. 208 (2003) 429
Porter, F.S., see Beiersdorfer, P. 205 (2003) 173
Portillo, M., see Scheidenberger, C. 204 (2003) 119
Portillo, M., see Ostroumov, P.N. 204 (2003) 433
Posselt, M., see Kokkoris, M. 201 (2003) 623
Posselt, M., see Belko, V. 202 (2003) 18
Postawa, Z., K. Ludwig, J. Piaskowy, K. Krantzman, N. Winograd and B.J. Garrison, Molecular dynamic simulations of the sputtering of multilayer organic systems 202 (2003) 168
Potempa, A., see Lekki, J. 210 (2003) 472
Potier, J.C., see Lau, C. 204 (2003) 246
Potier, J.C., see Lau, C. 204 (2003) 257
Potier, J.C., see Essabaa, S. 204 (2003) 780
Potylitsina-Kube, N. and X. Artru, Diffraction radiation from ultrarelativistic particles passing through a slit. Determination of the electron beam divergence 201 (2003) 172
Potylitsyn, A.P., see Aleinik, A.N. 201 (2003) 34
Potylitsyn, A.P., see Adischev, Y.N. 201 (2003) 114
Potylitsyn, A., see Karataev, P. 201 (2003) 133
Potylitsyn, A., see Karataev, P. 201 (2003) 140
Potylitsyn, A.P., Linear polarization of diffraction radiation from slit and beam size determination 201 (2003) 161
Potylitsyn, A.P., see Aleinik, A.N. 201 (2003) 191
Potylitsyn, A., see Karataev, P. 201 (2003) 201
Potylitsin, A., see Artru, X. 201 (2003) 243

Potylitsin, A.P., see Okuno, H. ... 201 (2003) 259
Potylitsyn, A.P., see Bogomazova, E.A. ... 201 (2003) 276
Potylitsyn, A.P., see Adischev, Y.N. ... 201 (2003) 300
Potylitsyn, A., see Kolchuzhkin, A. ... 201 (2003) 307
Pougheon, F., see Lau, C. ... 204 (2003) 246
Pougheon, F., see Essabaa, S. ... 204 (2003) 780
Poutissou, R., see Kiefl, R.F. ... 204 (2003) 682
Poutissou, R., see Levy, C.D.P. ... 204 (2003) 689
Povyshev, V., see Shirkov, G. ... 205 (2003) 215
Powell, J., J.P. O'Neil and J. Cerny, Production of an accelerated oxygen-14 beam ... 204 (2003) 440
Pozdeeva, T.O., see Bordovitsyn, V.A. ... 201 (2003) 9
Prakash Goteti, L.N.S., see Nageswara Rao, S.V.S. ... 202 (2003) 312
Prasalovich, S.V., see Popok, V.N. ... 207 (2003) 145
Pratesi, G., see Lo Giudice, A. ... 210 (2003) 429
Preisendorf, V., see Shirkov, G. ... 205 (2003) 215
Prete, G., see Lau, C. ... 204 (2003) 257
Preusser, F., see Erfurt, G. ... 207 (2003) 487
Price, D.L., see Hennet, L. ... 207 (2003) 447
Prigent, C., see Adoui, L. ... 205 (2003) 341
Priolo, F., see De Salvador, D. ... 206 (2003) 922
Prise, K.M., see Folkard, M. ... 210 (2003) 302
Protic, D., see Stöhlker, Th. ... 205 (2003) 210
Proust, J., see Mirea, M. ... 201 (2003) 433
Proust, J., see Lau, C. ... 204 (2003) 246
Proust, J., see Essabaa, S. ... 204 (2003) 780
Przybyłowicz, W.J., J. Mesjasz Przybyłowicz, P. Migula, E. Głowacka, M. Nakonieczny and M. Augustyniak, Functional analysis of metals distribution in organs of the beetle *Chrysolina pardalina* exposed to excess of nickel by Micro-PIXE ... 210 (2003) 343
Ptatschek, V., see Gläsel, H.-J. ... 208 (2003) 303
Pugachov, D., J. They, G. Buschhorn, R. Kotthaus, V.L. Morokhovskii, H. Genz, A. Richter and A. Ushakov, Polarimetry of coherent polarization radiation ... 201 (2003) 55
Purkait, M., Classical/quantum correspondence in state selective charge transfer and ionization cross-sections for Li^{q+} ($q = 1$–3) ions with neutral hydrogen ... 207 (2003) 101
Purwanto, S., I. Sakamoto, M. Koike, H. Tanoue and S. Honda, Effects of ion irradiation on structural and magnetic properties of Fe/Si multilayers prepared by helicon plasma sputtering ... 206 (2003) 326
Pyrvanova, N., see Zhechev, D. ... 204 (2003) 387

Qayyum, A., C. Mair, T. Tepnual, W. Schustereder, P. Scheier and T.D. Märk, Charge exchange and surface-induced dissociation of doubly charged molecular ions $C_6H_3^{2+}$, $C_6H_6^{2+}$ and $C_7H_8^{2+}$ upon impact on a stainless steel surface ... 205 (2003) 714
Qin, J., see Cui, B. ... 204 (2003) 58
Qin, X., T. Tzvetkov and D.C. Jacobs, Reaction of 5 eV O^+ with a decanethiolate/Au(111) self-assembled monolayer ... 203 (2003) 130
Qiu, H., see Li, X. ... 210 (2003) 412
Qiu, Z., see Li, X. ... 210 (2003) 412
Querner, C., see Schmidt, T. ... 208 (2003) 331
Quint, W., see Sikler, G. ... 204 (2003) 482
Quint, W., see Beck, M. ... 204 (2003) 521
Quint, W., see Werth, G. ... 205 (2003) 1
Quint, W., see Beier, T. ... 205 (2003) 15
Quint, W., see Stöhlker, Th. ... 205 (2003) 156

Raboud, P.-A., see Rzadkiewicz, J. ... 205 (2003) 128
Raboud, P.A., see Czarnota, M. ... 205 (2003) 133
Radtke, R., see Hutton, R. ... 205 (2003) 114
Radtke, R., C. Biedermann and P. Bachmann, Sawtooth-like X-ray emission observed in EBIT ... 205 (2003) 250

Radtke, R., see Biedermann, C. 205 (2003) 255
Rahaman, S., see Sikler, G. 204 (2003) 482
Rahkila, P., see Page, R.D. 204 (2003) 634
Rahkila, P., see Uusitalo, J. 204 (2003) 638
Rahman, M., see Marchal, J. 206 (2003) 462
Raineri, V., see De Salvador, D. 206 (2003) 922
Rajta, I., see Watt, F. 210 (2003) 14
Rajta, I., I. Gómez-Morilla, M.H. Abraham and Á.Z. Kiss, Proton beam micromachining on PMMA, Foturan and CR-39 materials 210 (2003) 260
Rajta, I., see Sum, T.C. 210 (2003) 266
Rajta, I., see Ahmed, M. 210 (2003) 548
Ramasawmy, D., S.D. Kenny and R. Smith, Computer modelling of ballistic particle ejection from NaCl ... 202 (2003) 175
Ramayya, A.V., see Batchelder, J.C. 204 (2003) 625
Rameev, B.Z., see Khaibullin, R.I. 206 (2003) 1115
Ramos, S.M.M., see Canut, B. 209 (2003) 335
Randers-Pehrson, G., see Bigelow, A.W. 210 (2003) 65
Randler, R.J., see Mitchell, J.B.A. 207 (2003) 227
Rando, R., see Bisello, D. 210 (2003) 142
Rangan, S., S. Ashok, G. Chen and D. Theodore, Multi-layered nanocavities in silicon with sequential helium implantation/anneal 206 (2003) 417
Rangwalla, I., see Nablo, S.V. 208 (2003) 90
Raoux, A.-C., A. Lyoussi, C. Passard, C. Denis, J. Loridon, J. Misraki and P. Chany, Transuranic waste assay by neutron interrogation and online prompt and delayed neutron measurement 207 (2003) 186
Răpă, M., see Grosu, E. 208 (2003) 220
Rastani, R., see Lettry, J. 204 (2003) 251
Rasulev, U.Kh., see Akhunov, Sh. 203 (2003) 146
Rasulev, U.Kh., see Morozov, S.N. 203 (2003) 192
Ratliff, L.P., see Takács, E. 205 (2003) 144
Ratliff, L.P., see Tawara, H. 205 (2003) 605
Ratzinger, U., see Kester, O. 204 (2003) 20
Rauschenbach, B., see Chassé, T. 206 (2003) 377
Rauschenbach, B., see Mändl, S. 206 (2003) 517
Rauschenbach, B., see Mändl, S. 206 (2003) 663
Rauschenbach, B., see Mändl, S. 206 (2003) 668
Rauschenbach, B. and S. Mändl, Plasma-sheath expansion around trenches in plasma immersion ion implantation 206 (2003) 803
Rauschenbach, B., see Hammerl, C. 206 (2003) 1072
Ravagnan, J., see Alonso, U. 207 (2003) 195
Ravi Kumar, M., see Bhuloka Reddy, S. 207 (2003) 345
Ravn, H., see Bennett, J.R.J. 204 (2003) 215
Ravn, H., see Bergmann, U.C. 204 (2003) 220
Ravn, H., see Lettry, J. 204 (2003) 251
Ravn, H., see Peräjärvi, K. 204 (2003) 272
Ravn, H.L. and The ISOLDE Collaboration and the Neutrino-Facroty Working Group, Advanced target concepts for production of radioactive ions and neutrino beams 204 (2003) 197
Ravn, H.L., see Beyer, G.J. 204 (2003) 225
Ravn, H.L., see Köster, U. 204 (2003) 303
Ravn, H.L., see Köster, U. 204 (2003) 347
Ray, C., see Dauvergne, D. 205 (2003) 773
Raynaud, P., see Dennler, G. 208 (2003) 176
Razpet, A., P. Pelicon, Z. Rupnik and M. Budnar, Development of a time-of-flight telescope for ERDA at the Jožef Stefan Institute 201 (2003) 535
Reed, C.B., see Nolen, J.A. 204 (2003) 293
Reed, C.B., see Nolen, J.A. 204 (2003) 298
Regan, P.H., see Page, R.D. 204 (2003) 634
Rehm, K.E., see Müller, P. 204 (2003) 536
Rehn, L.E., see Andersen, H.H. 201 (2003) 315

Rehn, L.E., B.J. Kestel, P.M. Baldo, J. Hiller, A.W. McCormick and R.C. Birtcher, Self-organized porous-alumina implantation masks for generating nanoscale arrays ... 206 (2003) 490
Reichart, P., see Dollinger, G. ... 210 (2003) 6
Reichart, P., G. Dollinger, G. Datzmann, A. Hauptner, R. Hertenberger and H.-J. Körner, Sensitive 3D hydrogen microscopy using high energy protons at SNAKE ... 210 (2003) 135
Reinert, T., see Spemann, D. ... 210 (2003) 79
Reinert, T., M. Morawski, T. Arendt and T. Butz, Quantitative microanalysis of perineuronal nets in brain tissue ... 210 (2003) 395
Reinhard, P.-G., see Giglio, E. ... 205 (2003) 350
Reinhard, P.-G. and E. Suraud, Metal clusters in strong fields ... 209 (2003) 41
Reinhold, C.O., see Burgdörfer, J. ... 205 (2003) 690
Reinhold, C.O., see Minami, T. ... 205 (2003) 818
Reinhold, C.O., see Seliger, M. ... 205 (2003) 830
Reis, M.A., see Almeida, S.M. ... 207 (2003) 434
Reiser, I. and C.L. Cocke, Alignment measurements in collisions of D_2^+ with doubly charged projectiles ... 205 (2003) 614
Reisinger, K., see Kester, O. ... 204 (2003) 20
Reisinger, K., see Wolf, B.H. ... 204 (2003) 428
Reisinger, K., see Beck, M. ... 204 (2003) 521
Reiter, P., see Kester, O. ... 204 (2003) 20
Reiter, P., see Habs, D. ... 204 (2003) 739
Remillieux, J., see Artru, X. ... 201 (2003) 243
Rémita, S., see Baldacchino, G. ... 209 (2003) 219
Renault, J.-P., see Baldacchino, G. ... 209 (2003) 219
Rensfelt, K.G., see Kester, O. ... 204 (2003) 20
Rentenier, A., P. Moretto-Capelle, D. Bordenave-Montesquieu and A. Bordenave-Montesquieu, Multi-fragmentation of C_{60} induced by $^4He^{2+}$ impact ($E < 60$ keV/amu) and investigated by a multi-correlation technique ... 205 (2003) 656
Repnow, R., see Kester, O. ... 204 (2003) 20
Ressler, J.J., R. Krücken, C.W. Beausang, J.M. D'Auria, H. Amro, R.F. Casten, M.A. Caprio, G. Gürdal, C. Hutter, A.A. Hecht, D. Meyer, M. Sciacciatano and N.V. Zamfir, SASSYER: An old instrument for new physics at Yale ... 204 (2003) 141
Reuther, H., see Ueda, M. ... 206 (2003) 749
Reuther, H., see Kögler, R. ... 206 (2003) 989
Reutov, V.F., S.N. Dmitriev and A.S. Sokhatsky, Transmission electron microscopy porometry of etched pore channels in track membranes ... 201 (2003) 460
Reyes, J., see Albano, C. ... 208 (2003) 485
Reyes, J.R., see Chipara, M. ... 208 (2003) 390
Reyes, S., see Kubota, A. ... 202 (2003) 88
Reyna Almandos, J., see Hutton, R. ... 205 (2003) 114
Riccardi, B., see Alves, L.C. ... 210 (2003) 495
Riccardi, P., see Barone, P. ... 209 (2003) 68
Richard, P., see Zouros, T.J.M. ... 205 (2003) 508
Richard, P., see Benis, E.P. ... 205 (2003) 517
Richard, P., see Zamkov, M. ... 205 (2003) 522
Richard-Plouet, M., see D'Orléans, C. ... 209 (2003) 316
Richard-Viard, M., see Cafarelli, P. ... 203 (2003) 211
Richter, A., see Pugachov, D. ... 201 (2003) 55
Richter, A., see Kester, O. ... 204 (2003) 20
Rickman, R.D., see Dias da Cunha, K. ... 201 (2003) 615
Ricz, S., see Knopp, H. ... 205 (2003) 433
Ricz, S., see Schippers, S. ... 205 (2003) 297
Ridgway, M.C., see Ruault, M.-O. ... 206 (2003) 912
Ridgway, M.C., see de M. Azevedo, G. ... 206 (2003) 1024
Ridley, M., see Naheed, N. ... 208 (2003) 204
Rigato, V., see Alonso, U. ... 207 (2003) 195
Rigato, V., see Vittone, E. ... 210 (2003) 159
Rigato, V., see Lo Giudice, A. ... 210 (2003) 429
Riisager, K., see Bergmann, U.C. ... 204 (2003) 220

Rinaldi, T., see Köster, U. 204 (2003) 303
Ringle, R., see Schwarz, S. 204 (2003) 474
Ringle, R., see Schwarz, S. 204 (2003) 507
Rinolfi, L., see Essabaa, S. 204 (2003) 780
Rinta-Antila, S., see Kolhinen, V.S. 204 (2003) 502
Rita, E., see Alves, E. 206 (2003) 1047
Rivarola, R.D. and P.D. Fainstein, Electron emission in collisions of highly charged ions with atoms and diatomic molecules 205 (2003) 448
Roberts, R.D., see Markwitz, A. 210 (2003) 418
Robin, A., see Heiland, W. 203 (2003) 76
Robin, A., D. Niemann, N. Stolterfoht and W. Heiland, Step effects in the interaction of highly charged ions (HCI) with a metal surface 205 (2003) 719
Robin, A., N. Hatke, J. Jensen, D. Plachke, H.D. Carstanjen and W. Heiland, Energy loss and charge state dependency of swift N^{q+} ions scattered off a Pt(110)(1 × 2) surface 209 (2003) 259
Robison, A., see Hossain, S. 205 (2003) 484
Rocco, C., see Mazzei, R. 208 (2003) 411
Rodin, A.M., S.V. Stepantsov, D.D. Bogdanov, M.S. Golovkov, A.S. Fomichev, S.I. Sidorchuk, R.S. Slepnev, R. Wolski, G.M. Ter-Akopian, Yu.Ts. Oganessian, A.A. Yukhimchuk, V.V. Perevozchikov, Yu.I. Vinogradov, S.K. Grishechkin, A.M. Demin, S.V. Zlatoustovskiy, A.V. Kuryakin, S.V. Fil'chagin and R.I. Ilkaev, Status of ACCULINNA beam line 204 (2003) 114
Rodríguez, D., see Sikler, G. 204 (2003) 482
Rodriguez, M., see Albano, C. 208 (2003) 485
Rodriguez, M., see Matsuyama, S. 210 (2003) 59
Rodriguez, M., see Oishi, Y. 210 (2003) 117
Rodríguez, V.D., CDW-EIS theoretical calculations of projectile deflection for single ionization in highly charged ion–atom collisions 205 (2003) 498
Roeckl, E., A. Blazhev, K. Burkard, J. Döring, H. Grawe, W. Hüller, R. Kirchner, C. Mazzocchi, I. Mukha and C. Plettner, Recent developments at the ISOL facility of GSI Darmstadt 204 (2003) 53
Rogachevskiy, A., see Berg, G.P. 204 (2003) 532
Rogers, J., see Engel, S. 204 (2003) 416
Rogers, J.G., see Wrede, C. 204 (2003) 619
Rogers, J.G., see Gigliotti, D.G. 204 (2003) 671
Rohlena, K., see Krása, J. 205 (2003) 355
Rolfs, C., see Schweitzer, J.S. 207 (2003) 80
Roma, G. and Y. Limoge, A first principles study of native defects in α-quartz 202 (2003) 120
Romano, A., M. Bertolus, M. Defranceschi and S. Yip, Modeling SiC swelling under irradiation: Influence of amorphization 202 (2003) 100
Romero, L.C., see Ager, F.J. 210 (2003) 401
Roorda, S., see Poirier, R. 206 (2003) 85
Root, D., see Apel, P.Yu. 209 (2003) 329
Rosenfeld, A.B., see Cornelius, I.M. 210 (2003) 191
Rosiak, J.M., I. Janik, S. Kadłubowski, M. Kozicki, P. Kujawa, P. Stasica and P. Ulanski, Nano-, micro- and macroscopic hydrogels synthesized by radiation technique 208 (2003) 325
Rosiak, J.M., see Janik, I. 208 (2003) 374
Rösler, M., see Pauly, N. 203 (2003) 36
Rösler, M., see Dubus, A. 205 (2003) 730
Rösler, M., see Schiwietz, G. 209 (2003) 26
Rosmej, F.B., see Morishita, Y. 205 (2003) 758
Rossat, G., see Essabaa, S. 204 (2003) 780
Rossi, J.O., see Ueda, M. 206 (2003) 760
Rossi, P., D.K. Brice and B.L. Doyle, Spatial distribution measured by the modulation transfer function 210 (2003) 85
Rossi, P., see Doyle, B.L. 210 (2003) 98
Rossi, P., B.L. Doyle, J.C. Banks, A. Battistella, G. Gennaro, F.D. McDaniel, M. Mellon, E. Vittone, G. Vizkelethy and N.D. Wing, Ion photon emission microscopy 210 (2003) 123
Rotaru, C.C., see Khalfaoui, N. 209 (2003) 165
Roth, J., see Liang, J.H. 202 (2003) 195
Roth, M., see Schiwietz, G. 209 (2003) 26

Rothard, H., see Gervais, B. 205 (2003) 835
Rothard, H., see Lanzanò, G. 205 (2003) 841
Rothard, H., see Neugebauer, R. 209 (2003) 62
Rothard, H., see Lanzanò, G. 209 (2003) 212
Rothard, H., see Khalfaoui, N. 209 (2003) 304
Roudil, D., see Trocellier, P. 206 (2003) 1077
Roudil, D., see Trocellier, P. 210 (2003) 507
Roussel-Chomaz, P., see Tahir, N.A. 204 (2003) 282
Roussel-Chomaz, P., see Geissel, H. 204 (2003) 71
Roussière, B., see Lau, C. 204 (2003) 246
Roussière, B., see Essabaa, S. 204 (2003) 780
Rout, B., see van den Putte, M.J.J. 210 (2003) 21
Rout, B., D.N. Jamieson, T. Hopf and C.G. Ryan, Phase correlations of elemental maps using nuclear microscopy 210 (2003) 129
Rouvière, N., see Essabaa, S. 204 (2003) 780
Rowe, B.R., see Mitchell, J.B.A. 207 (2003) 227
Roy, D., see Massey, S. 208 (2003) 236
Rozet, J.-P., see Adoui, L. 205 (2003) 341
Rozet, J.-P., see Bräuning, H. 205 (2003) 826
Ruault, M.-O., M.C. Ridgway, F. Fortuna, H. Bernas and J.S. Williams, Shrinkage mechanism of nanocavities in amorphous Si under ion irradiation: An in situ study 206 (2003) 912
Ruiz, C.S.B., L.D.B. Machado, J.E. Volponi and E.S. Pino, Influence of sample composition and processing parameters on the UV cure of clear coatings 208 (2003) 309
Ruiz, L.F., see Hervieux, P.-A. 205 (2003) 677
Rümmele, M., see Gstir, B. 205 (2003) 413
Rundhe, M., see Kamila, J. 207 (2003) 291
Runtzo, M.F., see Vodopianov, A.S. 201 (2003) 266
Rupnik, Z., see Razpet, A. 201 (2003) 535
Rusanov, V., Sv. Stankov, V. Angelov, N. Koop, H. Winkler and A.X. Trautwein, On the theory of the polarization effects and its experimental test by angle-dependent Mössbauer spectroscopy with guanidinium nitroprusside $(CN_3H_6)_2[Fe(CN)_5NO]$ (GNP) single crystals 207 (2003) 205
Rusi El Hassani, A.J., see Anagnostopoulos, D.F. 205 (2003) 9
Ruth, T.J., see Lapi, S. 204 (2003) 444
Ruth, T.J., see Beyer, G.J. 204 (2003) 694
Ruzicka, J., see Vodopianov, A.S. 201 (2003) 266
Ryan, C.G., see Rout, B. 210 (2003) 129
Ryasnyansky, A.I., see Stepanov, A.L. 206 (2003) 624
Ryckewaert, G., see Gaelens, M. 204 (2003) 48
Rykaczewski, K.P., see Batchelder, J.C. 204 (2003) 625
Rzadkiewicz, J., D. Chmielewska, A. Gójska, Z. Sujkowski, M. Berset, J.-C. Dousse, Y.-P. Maillard, O. Mauron, P.-A. Raboud, M. Polasik, J. Hoszowska and M. Pajek, M-subshell ionization in near-central collisions of 20-MeV/amu carbon ions with molybdenum atoms 205 (2003) 128
Rzadkiewicz, J., see Czarnota, M. 205 (2003) 133

Saalmann, U., see Zarour, B. 205 (2003) 610
Sabounqi, M.-L., see Hennet, L. 207 (2003) 447
Sader, R., see Mändl, S. 206 (2003) 517
Sadigh, B., see Kubota, A. 202 (2003) 88
Sadler, G., see Kothapalli, A. 208 (2003) 340
Sadoh, T., see Murakami, Y. 206 (2003) 304
Sadoh, T., H. Eguchi, A. Kenjo and M. Miyao, Etching characteristics of SiO_2 irradiated with focused ion beam 206 (2003) 478
Sadovoi, A., see Shirkov, G. 205 (2003) 215
Safarov, A.N., see Adischev, Y.N. 201 (2003) 300
Sahota, H.S., see Singh, H. 207 (2003) 257
Saidoh, M., see Oishi, Y. 210 (2003) 117
Saint, A., see Lee, K.K. 210 (2003) 489
Saint-Laurent, M.G., see Gibouin, S. 204 (2003) 240

Saito, H., see Yukimura, K. 206 (2003) 745
Saito, K., see Nakanishi, Y. 206 (2003) 1033
Saito, K., see Fukuda, M. 210 (2003) 33
Saito, R., see Fukudome, T. 206 (2003) 287
Saito, T., see Yamamoto, H. 206 (2003) 42
Saito, T., see Haraguchi, M. 206 (2003) 313
Saito, T., H. Yamamoto, K. Yamaguchi, T. Nakanoya, K. Hojou, M. Haraguchi, M. Imamura, N. Matsubayashi, T. Tanaka and H. Shimada, Characterization of air-exposed surface of β-$FeSi_2$ fabricated by ion beam sputter deposition method 206 (2003) 321
Saito, Y., Y. Imamura and A. Kitahara, Optical properties of YSZ implanted with Ag ions 206 (2003) 272
Saitoh, H., see Choi, Y. 206 (2003) 241
Saitoh, K., see Arakawa, K. 206 (2003) 76
Saitoh, M., see Harada, S. 210 (2003) 383
Saitoh, Y., see Hirata, K. 206 (2003) 47
Saitoh, Y., see Doyle, J.P. 206 (2003) 467
Sajavaara, T., see Dhar, S. 205 (2003) 741
Sakaguchi, I., D. Park, Y. Takata, S. Hishita, N. Ohashi, H. Haneda and T. Mitsuhashi, An effect of annealing on In implanted ZnO 206 (2003) 153
Sakai, K., see Doyle, J.P. 206 (2003) 467
Sakai, S., see Kitazawa, S.-i. 206 (2003) 952
Sakai, T., see Satoh, T. 210 (2003) 113
Sakai, T., see Oishi, Y. 210 (2003) 117
Sakai, T., see Ohnuki, T. 210 (2003) 378
Sakai, T., see Harada, S. 210 (2003) 383
Sakai, T., see Yamamoto, H. 210 (2003) 388
Sakai, T., see Ohnuki, T. 210 (2003) 407
Sakai, T., see Kozai, N. 210 (2003) 513
Sakamoto, F., see Ohnuki, T. 210 (2003) 378
Sakamoto, F., see Ohnuki, T. 210 (2003) 407
Sakamoto, I., see Purwanto, S. 206 (2003) 326
Sakamoto, I., see Hayashi, N. 206 (2003) 1066
Sakamoto, R., see Matsuyama, S. 210 (2003) 59
Sakudo, N., D. Mizutani, Y. Ohmura, H. Endo, R. Yoneda, N. Ikenaga and H. Takikawa, Surface modification of PET film by plasma-based ion implantation 206 (2003) 687
Sakuma, T., see Shibata, T. 206 (2003) 139
Sakuma, T., see Motohashi, Y. 206 (2003) 144
Sakurai, C., see Kudo, H. 207 (2003) 283
Salikhbaev, U.S., see Adischev, Y.N. 201 (2003) 300
Salmoun, A., see Bernard, J. 205 (2003) 196
Salmoun, A., see Brédy, R. 205 (2003) 651
Salmoun, A., see Martin, S. 209 (2003) 265
Salomé, M., see Ortega, R. 210 (2003) 325
Salvat, F., see Sempau, J. 207 (2003) 107
Salzborn, E., see Aichele, K. 205 (2003) 437
Salzborn, E., see Bräuning, H. 205 (2003) 555
Samaras, M., P.M. Derlet, H. Van Swygenhoven and M. Victoria, Stacking fault tetrahedra formation in the neighbourhood of grain boundaries 202 (2003) 51
Sammiceli, F., see Lo Giudice, A. 210 (2003) 429
Sanche, L., Irradiation of organic and polymer films with low-energy electrons 208 (2003) 4
Sanche, L., see Vichnevetski, E. 208 (2003) 210
Sanche, L., see Levesque, P.L. 208 (2003) 225
Sánchez, E.A., G. Otero, N. Tognalli, O. Grizzi and V.H. Ponce, Interaction of keV ions with insulator films at grazing incidence: growth characterization and electron emission 203 (2003) 41
Sanchez, R., see Nörtershäuser, W. 204 (2003) 644
Sands, J.M., see Mascioni, M. 208 (2003) 353
Sandu, C.S., see Canut, B. 209 (2003) 335
Sang, J., see Zhang, X. 206 (2003) 215

Sannakki, B., see Diwan, P.K. 201 (2003) 389
Sano, Y., see Sato, Y. 201 (2003) 571
Santana-Leitner, M., see Peräjärvi, K. 204 (2003) 272
Santana-Leitner, M., see Köster, U. 204 (2003) 303
Santeufemio, C., see Insepov, Z. 202 (2003) 261
Santeufemio, C., see Insepov, Z. 206 (2003) 846
Santini, A., see Baccaro, S. 208 (2003) 191
Santos, J.P., M.C. Martins, A.M. Costa, F. Parente and P. Indelicato, Two-electron one-photon transition relativistic calculations for low-Z elements 205 (2003) 102
Sarasola, A., V.H. Ponce and A. Arnau, Energy loss of protons at surfaces: a local density approach 203 (2003) 104
Sarazin, F., see Svensson, C.E. 204 (2003) 660
Sarkadi, L., Theoretical study of cusp-electron emission from O^{8+} + Ar collisions 205 (2003) 533
Sarkadi, L., see Lugosi, L. 205 (2003) 591
Saruev, G.A., see Aleinik, A.N. 201 (2003) 34
Saruev, G.A., see Aleinik, A.N. 201 (2003) 191
Sasa, K., K. Furuno, Y. Yamato, H. Ohshima, S. Ishii, T. Komatsubara and M. Kurosawa, The Tsukuba high-energy nuclear microprobe for hydrogen analysis of mineral samples 210 (2003) 48
Sasa, K., see Furuno, K. 210 (2003) 459
Sasahara, K., see Okuno, H. 201 (2003) 259
Sasase, M., see Haraguchi, M. 206 (2003) 313
Sasase, M., see Takahiro, K. 206 (2003) 639
Sasase, M., Y. Ito, K. Yasuda, R. Ishigami, S. Hatori and A. Yamamoto, Defect formation in 6H-SiC irradiated by 3 MeV He ions 209 (2003) 179
Sasase, M., see Ito, Y. 209 (2003) 362
Sasase, M., see Yasuda, K. 210 (2003) 27
Sataka, M., see Miyatake, H. 204 (2003) 746
Sataka, M., see Kawatsura, K. 205 (2003) 528
Sataka, M., see Matsunami, N. 206 (2003) 282
Sataka, M., see Matsunami, N. 209 (2003) 288
Sato, F., see Iida, T. 210 (2003) 37
Sato, F., T. Tanaka, T. Kagawa and T. Iida, Simultaneous irradiation of laser and ion beams on optical materials 210 (2003) 281
Sato, H., see Tsuji, H. 206 (2003) 507
Sato, K., S. Ikeda, M. Iida, A. Oshima, Y. Tabata and M. Washio, Study on poly-electrolyte membrane of crosslinked PTFE by radiation-grafting 208 (2003) 424
Sato, M., see Okuyama, Y. 206 (2003) 543
Sato, N.Y., see Ikehata, T. 206 (2003) 772
Sato, N.Y., see Ikehata, T. 206 (2003) 782
Sato, S., see Nakano, T. 210 (2003) 316
Sato, Y., A. Kitagawa, M. Muramatsu, T. Murakami, S. Yamada, C. Kobayashi, Y. Kageyama, T. Miyoshi, H. Ogawa, H. Nakabushi, T. Fujimoto, T. Miyata and Y. Sano, Charge fraction of 6.0 MeV/n heavy ions with a carbon foil: Dependence on the foil thickness and projectile atomic number 201 (2003) 571
Sato, Y., D. Yamaguchi, T. Katoh, S. Ikeda, Y. Aoki, A. Oshima, Y. Tabata and M. Washio, Surface modification of polytetrafluoroethylene by synchrotron radiation 208 (2003) 231
Sato, Y., see Yamaguchi, H. 210 (2003) 292
Satoh, H., see Doyle, J.P. 206 (2003) 467
Satoh, M., see Nakamura, T. 206 (2003) 956
Satoh, T., K. Ishii, T. Kamiya, T. Sakai, M. Oikawa, K. Arakawa, S. Matsuyama and H. Yamazaki, Development of a large-solid-angle and multi-device detection system for elemental analysis 210 (2003) 113
Satoh, T., see Oishi, Y. 210 (2003) 117
Satoh, T., see Ohnuki, T. 210 (2003) 378
Satoh, T., see Harada, S. 210 (2003) 383
Satoh, T., see Ohnuki, T. 210 (2003) 407
Satoh, T., see Kozai, N. 210 (2003) 513
Satorre, M.A., see Baratta, G.A. 209 (2003) 283
Satpati, B., see Kamila, J. 207 (2003) 291
Satriano, C., S. Carnazza, S. Guglielmino and G. Marletta, Surface free energy and cell attachment onto ion-beam irradiated polymer surfaces 208 (2003) 287

Satyam, P.V., see Kamila, J. 207 (2003) 291
Saudé, S., see Trocellier, P. 206 (2003) 1077
Saudé, S., see Trocellier, P. 210 (2003) 507
Saunders, C.B., see Lopata, V.J. 208 (2003) 102
Sauvage, J., see Lau, C. 204 (2003) 246
Sauvage, J., see Essabaa, S. 204 (2003) 780
Sauvage, T., see Vincent, L. 207 (2003) 339
Sauvan, E., see Blaum, K. 204 (2003) 478
Savajols, H., VAMOS: A variable mode high acceptance spectrometer for identifying reaction products induced by SPIRAL beams 204 (2003) 146
Savard, G., see Scheidenberger, C. 204 (2003) 119
Savard, G., see Clark, J. 204 (2003) 487
Savard, G., J. Clark, C. Boudreau, F. Buchinger, J.E. Crawford, H. Geissel, J.P. Greene, S. Gulick, A. Heinz, J.K.P. Lee, A. Levand, M. Maier, G. Münzenberg, C. Scheidenberger, D. Seweryniak, K.S. Sharma, G. Sprouse, J. Vaz, J.C. Wang, B.J. Zabransky, Z. Zhou and The S258 Collaboration, Development and operation of gas catchers to thermalize fusion–evaporation and fragmentation products 204 (2003) 582
Savard, G., Status of the R&D for the rare isotope accelerator project 204 (2003) 771
Savoini, B., see Alves, E. 206 (2003) 148
Sawa, M., see Enomoto, Y. 206 (2003) 596
Scandale, W., see Bellucci, S. 202 (2003) 236
Schaaf, P., see Dhar, S. 205 (2003) 741
Schaffner, H., see Lozeva, R. 204 (2003) 678
Schattat, B., see Bolse, W. 209 (2003) 32
Scheid, W., see Brandau, C. 205 (2003) 66
Scheid, W., see Zakowicz, S. 205 (2003) 386
Scheidenberger, C., see Geissel, H. 204 (2003) 71
Scheidenberger, C., H. Geissel, M. Maier, G. Münzenberg, M. Portillo, G. Savard, P. Van Duppen, H. Weick, M. Winkler, M. Yavor, F. Attallah, K.-H. Behr, V. Chichkine, S. Eliseev, M. Hausmann, M. Hellström, E. Kaza, B. Kindler, Y. Litvinov, B. Lommel, G. Marx, M. Matos, N. Nankov, T. Ohtsubo, K. Sümmerer, Z.-Y. Sun and Z. Zhou, Energy and range focusing of in-flight separated exotic nuclei – A study for the energy-buncher stage of the low-energy branch of the Super-FRS 204 (2003) 119
Scheidenberger, C., see Winkler, M. 204 (2003) 454
Scheidenberger, C., see Blaum, K. 204 (2003) 478
Scheidenberger, C., see Sikler, G. 204 (2003) 482
Scheidenberger, C., see Savard, G. 204 (2003) 582
Scheidenberger, C., see Uggerhøj, U.I. 207 (2003) 402
Scheier, P., see Gstir, B. 205 (2003) 413
Scheier, P., see Qayyum, A. 205 (2003) 714
Scheier, P., see Farizon, B. 209 (2003) 9
Scheit, H., see Kester, O. 204 (2003) 20
Schempp, A., see Kester, O. 204 (2003) 20
Scherzer, T., W. Knolle, S. Naumov and R. Mehnert, Direct initiation of the photopolymerization of acrylates by short-wavelength excimer UV radiation 208 (2003) 271
Scheuermann, F., see Aichele, K. 205 (2003) 437
Schiettekatte, F., see Poirier, R. 206 (2003) 85
Schiffer, J.P., see Müller, P. 204 (2003) 536
Schinner, A., see Sigmund, P. 209 (2003) 19
Schinner, A., see Paul, H. 209 (2003) 252
Schippers, S., see Brandau, C. 205 (2003) 66
Schippers, S., see Kieslich, S. 205 (2003) 99
Schippers, S., see Shi, W. 205 (2003) 201
Schippers, S., A. Müller, S. Ricz, M.E. Bannister, G.H. Dunn, J. Bozek, A.S. Schlachter, G. Hinojosa, C. Cisneros, A. Aguilar, A.M. Covington, M.F. Gharaibeh and R.A. Phaneuf, Photoionization of Sc^{2+}: Experimental link with photorecombination of Sc^{3+} by application of detailed balance 205 (2003) 297
Schippers, S., see Schnell, M. 205 (2003) 367
Schippers, S., see Böhm, S. 205 (2003) 370

Schippers, S., see Jacobi, J. 205 (2003) 410
Schippers, S., see Knopp, H. 205 (2003) 433
Schiretz, F.R., see Shalaby, S.W. 208 (2003) 110
Schiwietz, G., M. Roth, K. Czerski, F. Staufenbiel, M. Rösler and P.L. Grande, Spectroscopy of Si-Auger electrons from the center of heavy-ion tracks 209 (2003) 26
Schlachter, A.S., see Schippers, S. 205 (2003) 297
Schlachter, A.S., see Müller, A. 205 (2003) 301
Schloesser, K., see Golombeck, M.-A. 206 (2003) 495
Schlossman, M., see Hanley, L. 203 (2003) 116
Schlutig, S., see Khalfaoui, N. 209 (2003) 304
Schmelmer, O., see Schubert, M. 209 (2003) 224
Schmid, K., see Draxler, M. 203 (2003) 218
Schmidt, H.T., see Jensen, J. 205 (2003) 643
Schmidt, K.-H., see Geissel, H. 204 (2003) 71
Schmidt, K.-H., see Pereira-Conca, J. 204 (2003) 517
Schmidt, M., see Kentsch, U. 205 (2003) 260
Schmidt, P., see Kester, O. 204 (2003) 20
Schmidt, T., C. Querner and K.-F. Arndt, Characterization methods for radiation crosslinked poly(vinyl methyl ether) hydrogels 208 (2003) 331
Schmor, P., see Dombsky, M. 204 (2003) 191
Schneider, M., see Mayer, M. 207 (2003) 263
Schnell, M., see Kieslich, S. 205 (2003) 99
Schnell, M., M.E. Bannister, S. Böhm, G. Gwinner, S. Kieslich, A. Müller, S. Schippers, D. Schwalm, W. Shi, A. Wolf and S.-G. Zhou, Trielectronic recombination in Be-like ions 205 (2003) 367
Schnopper, H., see Takács, E. 205 (2003) 144
Schnopper, H., see Matranga, M. 205 (2003) 244
Scholey, C., see Enqvist, T. 204 (2003) 138
Scholey, C., see Uusitalo, J. 204 (2003) 638
Schöll, E., see Elsholz, F. 202 (2003) 249
Scholz, M., see Taucher-Scholz, G. 209 (2003) 270
Scholz, M., see Spielberger, B. 209 (2003) 277
Schou, J., see Baragiola, R.A. 209 (2003) 294
Schrieder, G., see Geissel, H. 204 (2003) 71
Schubert, M., F. Grüner, W. Assmann, F. Bell, A. Bergmaier, L. Goergens, O. Schmelmer, G. Dollinger and S. Karamian, Cooling and heating of channeled ions and corresponding charge state distributions 209 (2003) 224
Schuch, R., see Pešić, Z.D. 203 (2003) 96
Schuch, R., see Böhm, S. 205 (2003) 370
Schuessler, B., see Golombeck, M.-A. 206 (2003) 495
Schulz, A., see Akapiev, G.N. 208 (2003) 133
Schulz, M., see Kirchner, T. 205 (2003) 479
Schulze, H.-J., see Zmeck, M. 210 (2003) 164
Schulze, S., see Golanski, A. 206 (2003) 731
Schumacher, G., see Darowski, N. 209 (2003) 131
Schury, P., see Schwarz, S. 204 (2003) 474
Schury, P., see Schwarz, S. 204 (2003) 507
Schustereder, W., see Qayyum, A. 205 (2003) 714
Schuurmans, P., see Beck, M. 204 (2003) 521
Schwalm, D., see Kester, O. 204 (2003) 20
Schwalm, D., see Zajfman, D. 205 (2003) 360
Schwalm, D., see Schnell, M. 205 (2003) 367
Schwank, J.R., see Vizkelethy, G. 210 (2003) 211
Schwartz, K., C. Trautmann and R. Neumann, Electronic excitations and heavy-ion-induced processes in ionic crystals 209 (2003) 73
Schwartz, K., see Manika, I. 209 (2003) 93
Schwartz, K., see Müller, C. 209 (2003) 175
Schwarz, S., see Blaum, K. 204 (2003) 331
Schwarz, S., see Bollen, G. 204 (2003) 466

Schwarz, S., G. Bollen, D. Lawton, A. Neudert, R. Ringle, P. Schury and T. Sun, A second-generation ion beam buncher and cooler 204 (2003) 474
Schwarz, S., see Blaum, K. 204 (2003) 478
Schwarz, S., G. Bollen, D. Lawton, P. Lofy, D.J. Morrissey, J. Ottarson, R. Ringle, P. Schury, T. Sun, V. Varentsov and L. Weissman, The low-energy-beam and ion-trap facility at NSCL/MSU 204 (2003) 507
Schweickert, H., see Golombeck, M.-A. 206 (2003) 495
Schweikhard, L., see Blaum, K. 204 (2003) 478
Schweitzer, J.S., R.A. Livingston, C. Rolfs, H.-W. Becker and S. Kubsky, Ion beam analysis of the hydration of tricalcium silicate 207 (2003) 80
Sciacciatano, M., see Ressler, J.J. 204 (2003) 141
Scott, J., see Marchal, J. 206 (2003) 462
Scraggs, H.C., see Svensson, C.E. 204 (2003) 660
Sealy, B.J., see Webb, R.P. 202 (2003) 143
Sealy, B.J., see Ahmed, S. 206 (2003) 1003
Sealy, B.J., see Ahmed, S. 206 (2003) 1008
Sealy, B.J., see Gennaro, S. 209 (2003) 136
Sedykh, S., see Bisello, D. 210 (2003) 142
Seetharami Reddy, B., see Bhuloka Reddy, S. 207 (2003) 345
Seguchi, T., see Hama, Y. 208 (2003) 123
Segueni, T., see Belgaid, M. 201 (2003) 545
Ségui, Y., see Dennler, G. 208 (2003) 176
Séguy, I., see Dennler, G. 208 (2003) 176
Seki, S., see Kudo, H. 207 (2003) 283
Seki, T., see Matsuo, J. 206 (2003) 838
Seki, T., see Nakai, A. 206 (2003) 842
Seki, T., see Nakatsu, O. 206 (2003) 866
Seki, T., J. Matsuo, G.H. Takaoka and I. Yamada, Generation of the large current cluster ion beam 206 (2003) 902
Sekine, T., see Koizumi, M. 204 (2003) 359
Sekine, T., see Watanabe, S. 206 (2003) 399
Seliger, M., K. Tőkési, C.O. Reinhold and J. Burgdörfer, Highly transverse velocity distribution of convoy electrons emitted by highly charged ions 205 (2003) 830
Seliverstov, M.D., see Andrighetto, A. 204 (2003) 267
Seliverstov, M.D., see Köster, U. 204 (2003) 347
Seliverstov, M.D., see Fedosseev, V.N. 204 (2003) 353
Seliverstov, M.D., see Panteleev, V.N. 204 (2003) 382
Semaniak, J., see Banaś, D. 205 (2003) 139
Semchenkov, A.G., see Artukh, A.G. 204 (2003) 159
Semchenkova, O.V., see Artukh, A.G. 204 (2003) 159
Sempau, J., J.M. Fernández-Varea, E. Acosta and F. Salvat, Experimental benchmarks of the Monte Carlo code PENELOPE 207 (2003) 107
Şen, M., see Uzun, C. 208 (2003) 242
Şen, M., see Özdemir, S. 208 (2003) 395
Şen, M., C. Uzun, Ö. Kantoğlu, S.M. Erdoğan, V. Deniz and O. Güven, Effect of gamma irradiation conditions on the radiation-induced degradation of isobutylene–isoprene rubber 208 (2003) 480
Seng, H.L., see Sum, T.C. 210 (2003) 266
Seng, H.L., T. Osipowicz, T.C. Sum, M.B.H. Breese, F. Watt, E.S. Tok and J. Zhang, High-resolution channeling contrast microscopy of compositionally graded $Si_{1-x}Ge_x$ layers 210 (2003) 483
Senna, J.R., see Beloto, A.F. 206 (2003) 677
Senthil Kumar, M., G. Sonia, D. Kanjilal, R. Dhanasekaran and J. Kumar, Electrical and optical isolation of GaN by high energy ion irradiation 207 (2003) 308
Sera, K., see Harada, S. 210 (2003) 383
Serebrenikov, K., see Hitz, D. 205 (2003) 168
Sereda, Yu.M., see Artukh, A.G. 204 (2003) 159
Serednyakov, S., see Artru, X. 201 (2003) 243
Sergeant, C., M.H. Vesvres, G. Devès, B. Baron and F. Guillou, Iron, transferrin and myelinogenesis 210 (2003) 349
Sergienko, V., see Kubankin, A. 201 (2003) 97
Serincan, U., see Marstein, E.S. 207 (2003) 424

Serio, S., see Matranga, M. ... 205 (2003) 244
Sermanni, P., see Donnelly, S.E. ... 206 (2003) 422
Serov, A.V., see Bolotovskii, B.M. ... 201 (2003) 49
Serov, A.V., S.V. Levonian and B.M. Bolotovskii, Properties of coherent transition radiation from an electron bunch accelerated in microtron ... 201 (2003) 91
Serruys, Y., see Trocellier, P. ... 206 (2003) 1077
Serruys, Y., see Trocellier, P. ... 210 (2003) 507
Setnescu, R., see Grosu, E. ... 208 (2003) 220
Setsuhara, Y., see Mitsuo, A. ... 206 (2003) 366
Severgin, Yu.P., see Artukh, A.G. ... 204 (2003) 159
Severijns, N., see Beck, M. ... 204 (2003) 521
Seweryniak, D., see Clark, J. ... 204 (2003) 487
Seweryniak, D., see Savard, G. ... 204 (2003) 582
Sgobba, S., see Lettry, J. ... 204 (2003) 251
Shabaev, V.M., see Beier, T. ... 205 (2003) 15
Shabaev, V.M., D.A. Glazov, M.B. Shabaeva, I.I. Tupitsyn, V.A. Yerokhin, T. Beier, G. Plunien and G. Soff, Theory of the g factor of lithium-like ions ... 205 (2003) 20
Shabaev, V.M., see Yerokhin, V.A. ... 205 (2003) 47
Shabaeva, M.B., see Shabaev, V.M. ... 205 (2003) 20
Shalaby, S.W., Y. Doyle, B.L. Anneaux, K.A. Carpenter and F.R. Schiretz, Radiochemical sterilization and its use for sutures ... 208 (2003) 110
Shaneyfelt, M.R., see Vizkelethy, G. ... 210 (2003) 211
Shao, G., see Gao, Y. ... 206 (2003) 317
Shao, G., see Lourenço, M.A. ... 206 (2003) 436
Shao, L., J. Liu, X. Wang, H. Chen, P.E. Thompson and W.-K. Chu, Reduction of boride-enhanced diffusion by point defect engineering and its application for shallow junction formation ... 206 (2003) 413
Shapira, D., Low current diagnostic devices for radioactive beams ... 204 (2003) 544
Sharafutdinov, A.F., see Aleinik, A.N. ... 201 (2003) 34
Sharafutdinov, A.F., see Aleinik, A.N. ... 201 (2003) 191
Sharafutdinov, A.F., see Bogomazova, E.A. ... 201 (2003) 276
Sharma, A., see Singh, N. ... 206 (2003) 1120
Sharma, K.S., see Barber, R.C. ... 204 (2003) 460
Sharma, K.S., see Clark, J. ... 204 (2003) 487
Sharma, K.S., see Savard, G. ... 204 (2003) 582
Sharma, S.K., see Diwan, P.K. ... 201 (2003) 389
Sharma, V., see Diwan, P.K. ... 201 (2003) 389
Shary, V., see Artru, X. ... 201 (2003) 243
Shaw, C., see Bureau, H. ... 210 (2003) 434
Shaw, C., see Bureau, H. ... 210 (2003) 449
Sheikh, N., The effect of radiosterilization on cytotoxicity of polyurethane film ... 208 (2003) 215
Shchepunov, V.A., see Artukh, A.G. ... 204 (2003) 159
Shchepunov, V.A., A. Cunsolo, F. Cappuzzello, A. Foti, A. Lazzaro, A.L. Melita, C. Nociforo and J.S. Winfield, Numerical computation of arbitrary order transfer maps and reconstructive correction of aberrations in the large acceptance spectrometer MAGNEX ... 204 (2003) 447
Shchepunov, V.A., see Oganessian, Yu.Ts. ... 204 (2003) 606
Shelukhov, I.P., see Kolninov, O.V. ... 208 (2003) 364
Shen, D., see Li, W.J. ... 206 (2003) 339
Shen, D.-Y., see He, W.-H. ... 201 (2003) 449
Shen, Y.-X., see He, W.-H. ... 201 (2003) 449
Shepard, K.W., see Ostroumov, P.N. ... 204 (2003) 433
Sherrill, B.M., see Geissel, H. ... 204 (2003) 71
Sherrill, B.M., see Morrissey, D.J. ... 204 (2003) 90
Sherrill, B.M., see Nolen, J.A. ... 204 (2003) 298
Sherrill, B.M., see Bazin, D. ... 204 (2003) 629
Sherrill, B.M., Overview of the Rare Isotope Accelerator project ... 204 (2003) 765
Shevtsov, V., see Shirkov, G. ... 205 (2003) 215
Shevtsov, V., see Alexandrov, V. ... 205 (2003) 220

Shi, C., see Liu, B. 201 (2003) 520
Shi, M., see Baragiola, R.A. 209 (2003) 294
Shi, W., see Brandau, C. 205 (2003) 66
Shi, W., see Kieslich, S. 205 (2003) 99
Shi, W., J. Jacobi, H. Knopp, S. Schippers and A. Müller, A high-current electron gun for electron–ion collision physics 205 (2003) 201
Shi, W., see Schnell, M. 205 (2003) 367
Shi, W., see Böhm, S. 205 (2003) 370
Shi, W., see Jacobi, J. 205 (2003) 410
Shibata, H., see Kawatsura, K. 205 (2003) 528
Shibata, H., see Koshimizu, M. 206 (2003) 57
Shibata, T., M. Ishihara, Y. Motohashi, S. Baba, T. Hoshiya, T. Kobayashi, S. Harjo and T. Sakuma, Superplastic deformation characteristics of 3Y-TZP after Zr ion irradiation 206 (2003) 139
Shibata, T., see Motohashi, Y. 206 (2003) 144
Shibayama, K., see Nakano, T. 210 (2003) 316
Shibuya, K., see Koshimizu, M. 206 (2003) 57
Shiiyama, K., see Higuchi, T. 206 (2003) 103
Shikazono, N., see Yamaguchi, H. 206 (2003) 561
Shikazono, N., see Morishita, T. 206 (2003) 565
Shikazono, N., see Ishii, K. 206 (2003) 570
Shikazono, N., see Okamura, M. 206 (2003) 574
Shikazono, N., see Maekawa, M. 206 (2003) 579
Shima, K., see Kurosawa, M. 210 (2003) 464
Shimada, H., see Saito, T. 206 (2003) 321
Shimakura, N., K. Atarashi, S. Suzuki and T. Shirai, Two-electron capture processes in collisions of Be^{4+} and Be^{3+} ions with He atoms 205 (2003) 596
Shimano, S., see Kurosawa, M. 210 (2003) 464
Shimatsu, K., see Ikehata, T. 206 (2003) 782
Shimizugawa, Y., see Kanda, K. 206 (2003) 880
Shimomura, H., see Watanabe, S. 206 (2003) 399
Shimozuma, M., see Date, H. 207 (2003) 373
Shinohara, M., see Yoshida, M. 206 (2003) 712
Shiota, Y., see Doyle, J.P. 206 (2003) 467
Shioya, K., see Ikehata, T. 206 (2003) 772
Shirai, K., see Kiguchi, K. 210 (2003) 312
Shirai, T., see Shimakura, N. 205 (2003) 596
Shirai, T., see Kusakabe, T. 205 (2003) 600
Shirkov, G., V. Alexandrov, V. Preisendorf, V. Shevtsov, A. Filippov, R. Komissarov, V. Mironov, E. Shirkova, O. Strekalovsky, N. Tokareva, A. Tuzikov, V. Vatulin, E. Vasina, V. Fomin, A. Anisimov, R. Veselov, A. Golubev, S. Grushin, V. Povyshev, A. Sadovoi, E. Donskoi, T. Nakagawa and Y. Yano, Particle-in-cell code library for numerical simulation of the ECR source plasma 205 (2003) 215
Shirkov, G., see Alexandrov, V. 205 (2003) 220
Shirkova, E., see Shirkov, G. 205 (2003) 215
Shirkova, V.V., see Akapiev, G.N. 208 (2003) 133
Shkvarunets, A.G., R.B. Fiorito and P.G. O'Shea, Optical diffraction–transition radiation interferometry and its application to the measurement of beam divergence 201 (2003) 153
Short, A., see Ambrosi, R.M. 207 (2003) 175
Short, K.T., see Johnson, P.B. 206 (2003) 1056
Short, K.T., see Kennedy, V.J. 210 (2003) 543
Shotter, A., Advances at ISOL facilities 204 (2003) 17
Shrieder, G., see Kester, O. 204 (2003) 20
Shul'ga, N.F. and V.V. Syshchenko, Transition radiation of fast charged particles on a fiber-like target, thin plates and atomic strings 201 (2003) 78
Shul'ga, N.F., see Dobrovolsky, S.N. 201 (2003) 123
Shul'ga, N.F., see Greenenko, A.A. 205 (2003) 767
Shutov, A., see Tahir, N.A. 204 (2003) 282
Shutthanandan, V., see Thevuthasan, S. 206 (2003) 162

Shutthanandan, V., see Wang, C.M. 207 (2003) 1
Shutthanandan, V., see Jiang, W. 207 (2003) 92
Shutthanandan, V., see Jiang, W. 207 (2003) 453
Sickafus, K.E., see Bae, In.-T. 206 (2003) 974
Sickafus, K.E., see Ishimaru, M. 206 (2003) 994
Sidorchuk, S.I., see Rodin, A.M. 204 (2003) 114
Sieber, T., see Kester, O. 204 (2003) 20
Sieber, T., see Habs, D. 204 (2003) 739
Siegele, R., see Cornelius, I.M. 210 (2003) 191
Siegele, R., see Orlic, I. 210 (2003) 330
Siegmann, B., U. Werner, H. Lebius, B. Huber, H.O. Lutz and R. Mann, Orientation dependence of N_2 and O_2 multiple ionization in slow and fast collisions with highly charged Xe-ions 205 (2003) 629
Siegmann, B., see Werner, U. 205 (2003) 639
Sielemann, R., see Weyer, G. 206 (2003) 90
Sienkiewicz, J.E., see Fritzsche, S. 205 (2003) 93
Sierpowski, D., see Stöhlker, Th. 205 (2003) 210
Sierpowski, D., see Gumberidze, A. 205 (2003) 374
Sierpowski, D., see Ma, X. 205 (2003) 550
Sierpowski, D., see Bednarz, G. 205 (2003) 573
Sigmund, P., see Glazov, L.G. 207 (2003) 240
Sigmund, P., A. Fettouhi and A. Schinner, Material dependence of electronic stopping 209 (2003) 19
Sikler, G., D. Ackermann, F. Attallah, D. Beck, J. Dilling, S.A. Elisseev, H. Geissel, D. Habs, S. Heinz, F. Herfurth, F. Heßberger, S. Hofmann, H.-J. Kluge, C. Kozhuharov, G. Marx, M. Mukherjee, J. Neumayr, W.R. Plaß, W. Quint, S. Rahaman, D. Rodríguez, C. Scheidenberger, M. Tarisien, P. Thirolf, V. Varentsov, C. Weber and Z. Zhou, First on-line test of SHIPTRAP 204 (2003) 482
Silva, J.N., see Pinheiro, T. 210 (2003) 373
Silva, M.D., see Beloto, A.F. 206 (2003) 677
Silver, E., see Takács, E. 205 (2003) 144
Silver, E., see Matranga, M. 205 (2003) 244
Silverans, R.E., see Bastiaansen, J. 203 (2003) 158
Simeone, D., see Trocellier, P. 206 (2003) 1077
Simeone, D., see Trocellier, P. 210 (2003) 507
Simon, H., see Kester, O. 204 (2003) 20
Simon, H., see Geissel, H. 204 (2003) 71
Simons, L.M., see Anagnostopoulos, D.F. 205 (2003) 9
Simpson, J., see Page, R.D. 204 (2003) 634
Sindona, A., see Barone, P. 209 (2003) 68
Singh, H., K. Singh, L. Gerward, K. Singh, H.S. Sahota and R. Nathuram, ZnO–PbO–B_2O_3 glasses as gamma-ray shielding materials 207 (2003) 257
Singh, K., see Singh, H. 207 (2003) 257
Singh, K., see Singh, H. 207 (2003) 257
Singh, M., see Dogra, A. 207 (2003) 296
Singh, N., A. Sharma and D.K. Avasthi, Effects of high energy (MeV) ion beam irradiation on polyethylene terephthalate 206 (2003) 1120
Singh, Y., L.C. Tribedi, M-shell X-ray production cross sections of Bi induced by highly charged F ions 205 (2003) 794
Singh, Y.P., see Kadhane, U. 205 (2003) 661
Sittner, F., see Ensinger, W. 206 (2003) 334
Siwy, Z., P. Apel, D. Dobrev, R. Neumann, R. Spohr, C. Trautmann and K. Voss, Ion transport through asymmetric nanopores prepared by ion track etching 208 (2003) 143
Sjakste, J., A.G. Borisov and J.P. Gauyacq, Wave packet propagation study of the electron transfer in back-scattering of H^- ions from alkali adsorbates on an Al surface 203 (2003) 49
Skála, J., see Krása, J. 205 (2003) 355
Skeppstedt, Ö., see Wolf, B.H. 204 (2003) 428
Skobochkin, A.M., see Gerasimenko, N.N. 206 (2003) 299
Skorupa, W., see Peeva, A. 206 (2003) 71
Skorupa, W., see Angelov, Ch. 206 (2003) 907
Skorupa, W., see Kögler, R. 206 (2003) 989

Skripnik, B.A., see Adischev, Y.N. ... 201 (2003) 300
Skukan, N., see Jakšić, M. ... 210 (2003) 176
Skukan, N., see Medunić, Z. ... 210 (2003) 237
Skurat, V., Vacuum ultraviolet photochemistry of polymers ... 208 (2003) 27
Skuratov, V.A., S.J. Zinkle, A.E. Efimov and K. Havancsak, Swift heavy ion-induced modification of Al_2O_3 and MgO surfaces ... 203 (2003) 136
Skuratov, V.A., see Plaksin, O.A. ... 206 (2003) 1083
Słabkowska, K. and M. Polasik, Effect of L- and M-shell ionization on the shapes and parameters of the K X-ray spectra of sulphur ... 205 (2003) 123
Słabkowska, K., see Czarnota, M. ... 205 (2003) 133
Słabkowska, K., see Majewska, U. ... 205 (2003) 799
Slepnev, R.S., see Rodin, A.M. ... 204 (2003) 114
Smirnov, Yu.I., see Efremov, A. ... 204 (2003) 368
Smith, A.C.H., M.E. Bannister, Y.-S. Chung, A.M. Derkatch, N. Djurić, H.F. Krause, D.B. Popovic, B. Wallbank and G.H. Dunn, Absolute measurements of cross-sections for near-threshold electron-impact excitation of Na-like and Mg-like multiply-charged ions ... 205 (2003) 421
Smith, A.J., see Beiersdorfer, P. ... 205 (2003) 173
Smith, D.R., see Ambrosi, R.M. ... 207 (2003) 175
Smith, K., see Marchal, J. ... 206 (2003) 462
Smith, M., see Dilling, J. ... 204 (2003) 492
Smith, M.B., see Svensson, C.E. ... 204 (2003) 660
Smith, N., see Elliman, R.G. ... 206 (2003) 427
Smith, R., see Ramasawmy, D. ... 202 (2003) 175
Smith, R., see Mulliah, D. ... 202 (2003) 294
Smith, R.A., see Tisch, J.W.G. ... 205 (2003) 310
Smolko, E., see Mazzei, R. ... 208 (2003) 411
Smolko, E.E., see Carbajal, M.L. ... 208 (2003) 416
Soares, J., see Alves, E. ... 206 (2003) 1047
Soares, J., see Alves, E. ... 207 (2003) 55
Soares, J.C., see Kling, A. ... 206 (2003) 653
Soares, J.C., see Alves, L.C. ... 210 (2003) 495
Sobocinski, P., see Laurent, G. ... 205 (2003) 546
Soda, K., see Morita, K. ... 206 (2003) 228
Soff, G., see Shabaev, V.M. ... 205 (2003) 20
Soff, G., see Andreev, O.Yu. ... 205 (2003) 25
Soga, F., see Yamaguchi, H. ... 210 (2003) 292
Sokell, E.J., see Currell, F.J. ... 205 (2003) 230
Sokhatsky, A.S., see Reutov, V.F. ... 201 (2003) 460
Somaki, Y., see Yamauchi, T. ... 208 (2003) 489
Sonck, M., see Tárkányi, F. ... 207 (2003) 381
Song, J.-H., see Jeon, G.Y. ... 206 (2003) 409
Song, J.H., see Jeon, G.Y. ... 206 (2003) 409
Song, M., see Mitsuishi, K. ... 206 (2003) 109
Song, Z.R., see Li, W.J. ... 206 (2003) 339
Sonia, G., see Senthil Kumar, M. ... 207 (2003) 308
Sonoda, T., see Wada, M. ... 204 (2003) 570
Sorge, K., see Meldrum, A. ... 207 (2003) 36
Sorlin, O., see Essabaa, S. ... 204 (2003) 780
Sorokin, M.V. and A.E. Volkov, Model of nanoisland nucleation in surface thermal spikes caused by energetic electronic excitations ... 205 (2003) 746
Sorokin, M.V., see Volkov, A.E. ... 209 (2003) 184
Souda, R., see Kato, M. ... 203 (2003) 89
Souda, R., see Krischok, S. ... 203 (2003) 124
Souda, R., see Kawanowa, H. ... 203 (2003) 178
Soufi, K., see Ahmed, M. ... 210 (2003) 548
Souliotis, G.A., M. Veselsky, G. Chubarian and S.J. Yennello, Production and separation of neutron-rich rare isotopes around and below the Fermi energy ... 204 (2003) 166

Souno, T., see Hattori, M. ... 210 (2003) 272
Souno, T., H. Nishikawa, M. Hattori, Y. Ohki, E. Watanabe, M. Oikawa, T. Kamiya and K. Arakawa, Characterization of ion-implanted silica glass by micro-photoluminescence and Raman spectroscopy ... 210 (2003) 277
Spadtke, P., see Ciavola, G. ... 204 (2003) 410
Specht, J.R., see Nolen, J.A. ... 204 (2003) 293
Specht, J.R., see Nolen, J.A. ... 204 (2003) 298
Spejewski, E.H., see Batchelder, J.C. ... 204 (2003) 625
Spemann, D., T. Reinert, J. Vogt, J. Wassermann and T. Butz, Active compensation of stray magnetic fields at LIPSION ... 210 (2003) 79
Spemann, D., K.-H. Han, R. Höhne, T. Makarova, P. Esquinazi and T. Butz, Evidence for intrinsic weak ferromagnetism in a C_{60} polymer by PIXE and MFM ... 210 (2003) 531
Spevacek, V., see Guillerminet, C. ... 207 (2003) 124
Spielberger, B., M. Krämer, M. Scholz and G. Kraft, Three-dimensional dose verification in complex particle radiation fields based on X-ray films ... 209 (2003) 277
Spillmann, U., see Stöhlker, Th. ... 205 (2003) 210
Spohr, R., see Siwy, Z. ... 208 (2003) 143
Springate, E., see Tisch, J.W.G. ... 205 (2003) 310
Sprouse, G., see Clark, J. ... 204 (2003) 487
Sprouse, G., see Savard, G. ... 204 (2003) 582
Sridharan, M., Sa.K. Narayandass, D. Mangalaraj and Hee Chul Lee, Effect of boron ion implantation on the structural and optical properties of polycrystalline $Cd_{0.96}Zn_{0.04}$ Te thin films ... 201 (2003) 465
Stachura, Z., see Brandau, C. ... 205 (2003) 66
Stachura, Z., see Gumberidze, A. ... 205 (2003) 374
Stachura, Z., see Ma, X. ... 205 (2003) 550
Stachura, Z., see Bednarz, G. ... 205 (2003) 573
Stachura, Z., see Bräuning, H. ... 205 (2003) 826
Stachura, Z., see Lekki, J. ... 210 (2003) 472
Staemmler, V., see Lederer, S. ... 203 (2003) 23
Stahle, C.K., see Beiersdorfer, P. ... 205 (2003) 173
Stamper, B., see Hossain, S. ... 205 (2003) 484
Stankov, Sv., see Rusanov, V. ... 207 (2003) 205
Stanley, F., see Yang, C. ... 210 (2003) 186
Stano, M., see Gstir, B. ... 205 (2003) 413
Starke, S., see Dörschel, B. ... 207 (2003) 154
Stasica, P., see Rosiak, J.M. ... 208 (2003) 325
Staufenbiel, F., see Schiwietz, G. ... 209 (2003) 26
Steck, M., see Brandau, C. ... 205 (2003) 66
Steck, M., see Gumberidze, A. ... 205 (2003) 374
Steih, T., see Brandau, C. ... 205 (2003) 66
Steinbatz, M., see Benka, O. ... 201 (2003) 396
Steiner, M., see Morrissey, D.J. ... 204 (2003) 90
Stenz, C., see Blasco, F. ... 205 (2003) 324
Stenz, Ch., see Caillaud, T. ... 205 (2003) 329
Stepanik, T.M., see Lopata, V.J. ... 208 (2003) 102
Stepanov, A.L., R.A. Ganeev, A.I. Ryasnyansky and T. Usmanov, Non-linear optical properties of metal nanoparticles implanted in silicate glass ... 206 (2003) 624
Stepanov, K.N., see Miroshnichenko, V.I. ... 201 (2003) 630
Stepanov, P.A., see Plaksin, O.A. ... 206 (2003) 1083
Stepanov, V.A., see Plaksin, O.A. ... 206 (2003) 1083
Stepantsov, S.V., see Rodin, A.M. ... 204 (2003) 114
Stepantsov, S.V., see Oganessian, Yu.Ts. ... 204 (2003) 606
Stephen, T.M., see DeFazio, J.N. ... 201 (2003) 453
Stepnov, Y.Y., see Adischev, Y.N. ... 201 (2003) 300
Stevefelt, J., see Blasco, F. ... 205 (2003) 324
Stevefelt, J., see Caillaud, T. ... 205 (2003) 329
Stevenson, I., see Davenas, J. ... 208 (2003) 461
Stingelin, L., see Anagnostopoulos, D.F. ... 205 (2003) 9

Stodel, C., see Gibouin, S. 204 (2003) 240
Stöhlker, T., see Brandau, C. 205 (2003) 66
Stöhlker, Th., H. Backe, H.F. Beyer, F. Bosch, A. Bräuning-Demian, S. Hagmann, D.C. Ionescu, K. Jungmann, H.-J. Kluge, C. Kozhuharov, Th. Kühl, D. Liesen, R. Mann, P.H. Mokler and W. Quint, Status and perspectives of atomic physics research at GSI: The new GSI accelerator project 205 (2003) 156
Stöhlker, Th., see Hagmann, S. 205 (2003) 207
Stöhlker, Th., D. Banas, H.F. Beyer, A. Gumberidze, C. Kozhuharov, E. Kanter, T. Krings, W. Lewoczko, X. Ma, D. Protic, D. Sierpowski, U. Spillmann, S. Tachenov and A. Warczak, Applications of position sensitive germanium detectors for X-ray spectroscopy of highly charged heavy ions 205 (2003) 210
Stöhlker, Th., see Gumberidze, A. 205 (2003) 374
Stöhlker, Th., see Surzhykov, A. 205 (2003) 391
Stöhlker, Th., see Fritzsche, S. 205 (2003) 469
Stöhlker, Th., see Ma, X. 205 (2003) 550
Stöhlker, Th., see Bednarz, G. 205 (2003) 573
Stöhlker, Th., see Bräuning, H. 205 (2003) 826
Stöhlker, Th., see Dauvergne, D. 205 (2003) 773
Stoitsov, M.V., see Nazarewicz, W. 204 (2003) 1
Stoliar, P., see Ozafrán, M.J. 201 (2003) 317
Stölken, J., see Bringa, E.M. 202 (2003) 56
Stolken, J., see Kubota, A. 202 (2003) 88
Stolterfoht, N., see Pešić, Z.D. 203 (2003) 96
Stolterfoht, N., V. Hoffmann, R. Hellhammer, Z.D. Pešić, D. Fink, A. Petrov and B. Sulik, Guided transmission of 3 keV Ne^{7+} ions through nanocapillaries etched in a PET polymer 203 (2003) 246
Stolterfoht, N., see Hossain, S. 205 (2003) 484
Stolterfoht, N., see Robin, A. 205 (2003) 719
Stolz, A., see Morrissey, D.J. 204 (2003) 90
Stoquert, J.P., see Golanski, A. 206 (2003) 731
Stoquert, J.P., see D'Orléans, C. 209 (2003) 316
Stoquert, J.P., see Khalfaoui, N. 209 (2003) 304
Storizhko, V.E., see Miroshnichenko, V.I. 201 (2003) 630
Storizhko, V.E., see Ponomarev, A.G. 201 (2003) 637
Stracener, D.W., Status of radioactive ion beams at the HRIBF 204 (2003) 42
Stracener, D.W., see Batchelder, J.C. 204 (2003) 625
Strachnov, I.M., see Andrighetto, A. 204 (2003) 267
Strakhovenko, V., see Artru, X. 201 (2003) 243
Strasser, D., see Zajfman, D. 205 (2003) 360
Strazzulla, G., see Baratta, G.A. 209 (2003) 283
Strekalovsky, O., see Shirkov, G. 205 (2003) 215
Strikhanov, M.N., see Vodopianov, A.S. 201 (2003) 266
Stritzker, B., see Häberlen, M. 206 (2003) 916
Stroe, L., see Lau, C. 204 (2003) 257
Stroe, L., see Andrighetto, A. 204 (2003) 267
Stroe, L., see Panteleev, V.N. 204 (2003) 382
Strokov, S., see Kolchuzhkin, A. 201 (2003) 307
Styczeń, J., see Lekki, J. 210 (2003) 472
Suda, A., see Ortega, R. 210 (2003) 364
Sudo, Y., see Watanabe, H. 210 (2003) 1
Suga, T., see Bandourko, V. 206 (2003) 606
Suga, T., Y. Takeda, K. Kono, N. Kishimoto, V.V. Bandourko and C.G. Lee, Radiation effects in diamond induced by negative gold ions 206 (2003) 947
Sugahara, H., see Tsuji, H. 206 (2003) 249
Sugai, H., see Nakamura, K. 206 (2003) 798
Sugano, R., see Morishita, K. 202 (2003) 76
Sugimoto, M., see Hama, Y. 208 (2003) 123
Suguri, T., see Kudo, H. 207 (2003) 283
Suhartini, M., see Yoshii, F. 208 (2003) 370
Sujkowski, Z., see Rzadkiewicz, J. 205 (2003) 128

Sujkowski, Z., see Czarnota, M. ... 205 (2003) 133
Sulik, B., see Stolterfoht, N. ... 203 (2003) 246
Sulik, B., see Orbán, A. ... 205 (2003) 464
Sulkio-Cleff, B., see Miroshnichenko, V.I. ... 201 (2003) 630
Sulkio-Cleff, B., see Ponomarev, A.G. ... 201 (2003) 637
Sum, T.C., see Bettiol, A.A. ... 210 (2003) 250
Sum, T.C., A.A. Bettiol, H.L. Seng, I. Rajta, J.A. van Kan and F. Watt, Proton beam writing of passive waveguides in PMMA ... 210 (2003) 266
Sum, T.C., see Seng, H.L. ... 210 (2003) 483
Sumita, T., see Choi, Y. ... 206 (2003) 241
Sumita, T., T. Yamaki, S. Yamamoto and A. Miyashita, Ion beam modification of photo-induced charge separation in TiO_2 films ... 206 (2003) 245
Sumita, T., see Yamaki, T. ... 206 (2003) 254
Sumita, T., see Umebayashi, T. ... 206 (2003) 264
Sumita, T., M. Imaizumi, S. Matsuda, T. Ohshima, A. Ohi and H. Itoh, Proton radiation analysis of multi-junction space solar cells ... 206 (2003) 448
Sümmerer, K., see Geissel, H. ... 204 (2003) 71
Sümmerer, K., see Scheidenberger, C. ... 204 (2003) 119
Sümmerer, K., Fragmentation cross sections outside the limiting-fragmentation regime ... 204 (2003) 278
Sun, L.T., see Hitz, D. ... 205 (2003) 168
Sun, T., see Schwarz, S. ... 204 (2003) 474
Sun, T., see Schwarz, S. ... 204 (2003) 507
Sun, Y., Z. Zhu, Z. Wang, Y. Jin, J. Liu, M. Hou and Q. Zhang, Swift heavy ion induced amorphisation and chemical modification in polycarbonate ... 209 (2003) 188
Sun, Y.M., see Wang, Z.G. ... 209 (2003) 200
Sun, Y.M., see Zhang, Q.X. ... 209 (2003) 367
Sun, Z.-Y., see Scheidenberger, C. ... 204 (2003) 119
Sundaram, S.K., see Thevuthasan, S. ... 207 (2003) 488
Sundareswar, B., see Bhuloka Reddy, S. ... 207 (2003) 345
Suraud, E., see Giglio, E. ... 205 (2003) 350
Suraud, E., see Reinhard, P.-G. ... 209 (2003) 41
Surzhykov, A., S. Fritzsche and Th. Stöhlker, Two-step radiative recombination of polarized electrons into bare, high-Z ions ... 205 (2003) 391
Surzhykov, A., see Fritzsche, S. ... 205 (2003) 469
Susini, J., see Ortega, R. ... 210 (2003) 325
Suwada, T., see Okuno, H. ... 201 (2003) 259
Suzuki, A., see Matsuyama, S. ... 210 (2003) 59
Suzuki, H., see Morita, K. ... 206 (2003) 228
Suzuki, H., see Kurotobi, K. ... 206 (2003) 532
Suzuki, M., see Yamaguchi, H. ... 210 (2003) 292
Suzuki, S., see Shimakura, N. ... 205 (2003) 596
Suzuki, Y., see Xu, G.C. ... 206 (2003) 330
Suzuki, Y., Ion beam modification of polymers for the application of medical devices ... 206 (2003) 501
Suzuki, Y., see Yotoriyama, T. ... 206 (2003) 527
Suzuki, Y., see Kurotobi, K. ... 206 (2003) 532
Suzuki, Y., M. Iwaki, S. Tani, G. Oohashi and M. Kamio, Ion implantation into ePTFE for application of a dural substitute ... 206 (2003) 538
Suzuki, Y., see Okuyama, Y. ... 206 (2003) 543
Svendsen, W., see Baragiola, R.A. ... 209 (2003) 294
Svensson, C.E., R.A.E. Austin, G.C. Ball, P. Finlay, P.E. Garrett, G.F. Grinyer, G.S. Hackman, C.J. Osborne, F. Sarazin, H.C. Scraggs, M.B. Smith and J.C. Waddington, Radioactive beam experiments with large gamma-ray detector arrays ... 204 (2003) 660
Swadener, J.G. and M. Nastasi, Increasing the fracture toughness of silicon by ion implantation ... 206 (2003) 937
Sylvia, C., see Artru, X. ... 201 (2003) 243
Symes, D.R., see Tisch, J.W.G. ... 205 (2003) 310
Syshchenko, V.V., see Shul'ga, N.F. ... 201 (2003) 78
Sytchevsky, S.E., see Artukh, A.G. ... 204 (2003) 159

Szabó, Gy., see Uzonyi, I. 210 (2003) 147
Szelecsényi, F., see Tárkányi, F. 207 (2003) 381
Szerypo, J., see Kolhinen, V.S. 204 (2003) 502
Szerypo, J., D. Habs, S. Heinz, J. Neumayr, P. Thirolf, A. Wilfart and F. Voit, MAFFTRAP: ion trap system for MAFF 204 (2003) 512
Szerypo, J., see Habs, D. 204 (2003) 739
Sziki, G.Á., K.T. Biró, I. Uzonyi, E. Dobos and Á.Z. Kiss, Investigation of incrusted pottery found in the territory of Hungary by micro-PIXE method 210 (2003) 478
Szilagyi, S.Z., see Ciortea, C. 205 (2003) 789
Szmider, J., see Artukh, A.G. 204 (2003) 159
Szpak, N., On the problem of "spontaneous pair creation" in strong electric fields 205 (2003) 30
Szydlowski, A., see Krása, J. 205 (2003) 355
Szymanski, R., see van den Putte, M.J.J. 210 (2003) 21
Szymkowiak, A.E., see Beiersdorfer, P. 205 (2003) 173

Tabacniks, M.H., see Ueda, M. 206 (2003) 760
Tabata, Y., see Sato, Y. 208 (2003) 231
Tabata, Y., see Sato, K. 208 (2003) 424
Tachenov, S., see Stöhlker, Th. 205 (2003) 210
Tadey, D., see Mazzei, R. 208 (2003) 411
Tagawa, S., see Yamauchi, T. 208 (2003) 489
Taglauer, E., see Draxler, M. 203 (2003) 218
Taguchi, M., see Koizumi, H. 206 (2003) 1124
Taguchi, M., see Koizumi, H. 208 (2003) 161
Taguchi, M., see Kobayashi, Y. 210 (2003) 308
Tahir, N.A., see Geissel, H. 204 (2003) 71
Tahir, N.A., M. Winkler, J. Kojouharova, P. Roussel-Chomaz, V. Chishkine, H. Geissel, D.H.H. Hoffmann, B. Kindler, F. Landre-Pellemoine, B. Lommel, W. Mittig, G. Münzenberg, A. Shutov, H. Weick and M. Yavor, High-power production targets for the Super-FRS using a fast extraction scheme 204 (2003) 282
Taira, Y., see Oikawa, M. 210 (2003) 54
Takabayashi, Y., see Azuma, T. 205 (2003) 779
Takabayashi, Y., see Nakai, Y. 205 (2003) 784
Takács, E., E. Silver, J.M. Laming, J.D. Gillaspy, H. Schnopper, N. Brickhouse, M. Barbera, M. Mantraga, L.P. Ratliff, H. Tawara, K. Makónyi, N. Madden, D. Landis, J. Beeman and E.E. Haller, Astrophysics and spectroscopy with microcalorimeters on an electron beam ion trap 205 (2003) 144
Takács, E., see Matranga, M. 205 (2003) 244
Takács, E., see Tawara, H. 205 (2003) 605
Takács, S., see Tárkányi, F. 207 (2003) 381
Takada, E., see Azuma, T. 205 (2003) 779
Takagi, K., see Yasuda, K. 210 (2003) 27
Takagi, T., see Yoshida, M. 206 (2003) 712
Takagi, T., see Tanaka, T. 206 (2003) 817
Takahashi, N., see Huang, W.X. 204 (2003) 592
Takahiro, K., see Kawatsura, K. 205 (2003) 528
Takahiro, K., see Ookawa, R. 206 (2003) 175
Takahiro, K., R. Ookawa, K. Kawatsura, F. Nishiyama, S. Nagata, S. Yamamoto, K. Narumi, H. Naramoto and M. Iwaki, Surface morphology of glassy carbon irradiated with nitrogen ions 206 (2003) 206
Takahiro, K., K. Kawatsura, S. Nagata, S. Yamamoto, H. Naramoto, M. Sasase and Y. Ito, Formation of CuCl and AgCl nanoclusters by sequential implantation 206 (2003) 639
Takai, H., see Koguchi, Y. 206 (2003) 202
Takai, H., see Harada, N. 206 (2003) 308
Takai, H., see Meguro, T. 209 (2003) 170
Takai, M., see Angelov, Ch. 206 (2003) 907
Takai, M., see Mimura, R. 210 (2003) 104
Takai, M., see Takayama, H. 210 (2003) 108
Takai, M., see Abo, S. 210 (2003) 216
Takai, O., see Watanabe, T. 206 (2003) 726

Takai, Y., see Matsunami, N. 206 (2003) 282
Takaki, K., see Mukaigawa, S. 206 (2003) 777
Takaki, K., S. Mukaigawa, T. Fujiwara, M. Kumagai and K. Yukimura, Characteristics of shunting arc discharge for carbon ion source 206 (2003) 794
Takaoka, G., see Aoki, T. 202 (2003) 278
Takaoka, G., see Aoki, T. 206 (2003) 855
Takaoka, G., see Aoki, T. 206 (2003) 861
Takaoka, G., see Nakatsu, O. 206 (2003) 866
Takaoka, G.H., see Kitagawa, T. 201 (2003) 405
Takaoka, G.H., see Nakai, A. 206 (2003) 842
Takaoka, G.H., see Seki, T. 206 (2003) 902
Takata, Y., see Sakaguchi, I. 206 (2003) 153
Takayama, H., see Mimura, R. 210 (2003) 104
Takayama, H., K. Iwasaki, K. Hayashi and M. Takai, Development of nanoprobe TOF-RBS system for semiconductor process 210 (2003) 108
Takeda, K.-i., see Kudo, H. 207 (2003) 283
Takeda, Y., see Miyatake, H. 204 (2003) 746
Takeda, Y., see Bandourko, V. 206 (2003) 606
Takeda, Y., see Okubo, N. 206 (2003) 610
Takeda, Y. and N. Kishimoto, Nonlinear optical properties of metal nanoparticle composites for optical applications 206 (2003) 620
Takeda, Y., see Kishimoto, N. 206 (2003) 634
Takeda, Y., see Suga, T. 206 (2003) 947
Takeuchi, M., Y. Onozaki, Y. Matsumura, H. Uchida and T. Kuji, Photoinduced hydrophilicity of TiO_2 thin film modified by Ar ion beam irradiation 206 (2003) 259
Takeuchi, M., see Yamashita, H. 206 (2003) 889
Takeuchi, M., see Yamashita, H. 206 (2003) 898
Takeuchi, S., see Miyatake, H. 204 (2003) 746
Takeuchi, T., see Matsutani, T. 206 (2003) 343
Takikawa, H., see Sakudo, N. 206 (2003) 687
Talbert, W.L., D.M. Drake, H.-H. Hsu and M.T. Wilson, Developments in high-intensity two-step target design 204 (2003) 314
Tamakawa, Y., see Harada, S. 210 (2003) 383
Tan, I.H., see Ueda, M. 206 (2003) 760
Tan Kwong Huat, B., see Minqin, R. 210 (2003) 336
Tanabe, H., see Nakamura, T. 206 (2003) 956
Tanaka, A., see Kitamura, S. 206 (2003) 548
Tanaka, A., see Yamaguchi, H. 206 (2003) 561
Tanaka, A., see Morishita, T. 206 (2003) 565
Tanaka, A., see Ishii, K. 206 (2003) 570
Tanaka, A., see Okamura, M. 206 (2003) 574
Tanaka, A., see Maekawa, M. 206 (2003) 579
Tanaka, A., see Watanabe, T. 206 (2003) 726
Tanaka, A., see Kurooka, S. 206 (2003) 1088
Tanaka, A., see Harada, S. 210 (2003) 383
Tanaka, H., see Hoshino, M. 205 (2003) 568
Tanaka, K., see Higuchi, T. 206 (2003) 103
Tanaka, M.H., see Miyatake, H. 204 (2003) 746
Tanaka, S., see Umebayashi, T. 206 (2003) 264
Tanaka, S., see Yamamoto, S. 206 (2003) 268
Tanaka, S., see Ito, Y. 209 (2003) 362
Tanaka, T., S. Watanabe, G. Mizuno, T. Takagi, M. Yoshida, H. Horibe and K. Yukimura, Ion current extracted from a self ignition plasma around the target immersed in a pulsed rf ICP methane plasma 206 (2003) 817
Tanaka, T., see Saito, T. 206 (2003) 321
Tanaka, T., see Yoshida, M. 206 (2003) 712
Tanaka, T., see Iida, T. 210 (2003) 37
Tanaka, T., see Sato, F. 210 (2003) 281
Tang, C.H., see An, Z. 207 (2003) 268

Tang, D.L., R.K.Y. Fu, X.B. Tian, P. Peng and P.K. Chu, Influence of magnetic field on magnetized hydrogen plasmas in plasma immersion ion implantation ... 206 (2003) 808
Tang, H., see Liu, W. ... 204 (2003) 62
Tang, X.J., see Cheng, X.Q. ... 207 (2003) 301
Tang, Y.J., see An, Z. ... 207 (2003) 268
Tani, H., see Kasukabe, Y. ... 206 (2003) 390
Tani, S., see Suzuki, Y. ... 206 (2003) 538
Tanihata, I., see Nörtershäuser, W. ... 204 (2003) 644
Tanis, J.A., see Hossain, S. ... 205 (2003) 484
Taniwaki, M., see Nitta, N. ... 206 (2003) 482
Tanoue, H., see Purwanto, S. ... 206 (2003) 326
Tantawy, M.N., see Batchelder, J.C. ... 204 (2003) 625
Tanuma, H., see Konnai, A. ... 205 (2003) 586
Tao, M., see Oka, Y. ... 206 (2003) 700
Tarasov, O.B. and D. Bazin, Development of the program LISE: application to fusion–evaporation ... 204 (2003) 174
Tarisien, M., see Sikler, G. ... 204 (2003) 482
Tarisien, M., see Laurent, G. ... 205 (2003) 546
Tarisien, M., see Dauvergne, D. ... 205 (2003) 773
Tárkányi, F., F. Ditrói, S. Takács, F. Szelecsényi, A. Hermanne and M. Sonck, Activation cross-sections of alpha induced nuclear reactions on iron up to 40 MeV ... 207 (2003) 381
Tarrant, R.N., see McKenzie, D.R. ... 206 (2003) 741
Tarus, J., see Nordlund, K. ... 206 (2003) 189
Tatarinov, I.I., see Vodopianov, A.S. ... 201 (2003) 266
Taucher-Scholz, G., B. Jakob, G. Becker and M. Scholz, Microscopic visualization of a biological response to charged particle traversal ... 209 (2003) 270
Tavera, L., see Balcázar, M. ... 209 (2003) 118
Tavlet, M., Effects of ageing of electrical insulators after exposure for 11 years in the large electron–positron collider at CERN ... 208 (2003) 476
Tawara, H., see Takács, E. ... 205 (2003) 144
Tawara, H., E. Takács, L.P. Ratliff, J.D. Gillaspy and K. Tőkési, Cascade transition X-rays from electron capture into highly charged ions in collisions with neutral gas targets ... 205 (2003) 605
Tayama, H., see Miyatake, H. ... 204 (2003) 746
Tazawa, M., see Matsunami, N. ... 206 (2003) 282
Tecchio, L., see Lau, C. ... 204 (2003) 257
Tecchio, L., see Andrighetto, A. ... 204 (2003) 267
Tecchio, L., see Panteleev, V.N. ... 204 (2003) 382
Tengblad, O., see Kester, O. ... 204 (2003) 20
Teo, E.J., A.A. Bettiol, C.N.B. Udalagama and F. Watt, Ionoluminescence and ion beam induced secondary electron imaging of cubic boron nitride ... 210 (2003) 501
Teodorescu, V., see Canut, B. ... 209 (2003) 335
Tepnual, T., see Qayyum, A. ... 205 (2003) 714
Terai, T., see Kakiuchi, H. ... 206 (2003) 27
Terai, T., see Kakiuchi, H. ... 206 (2003) 237
Ter-Akopian, G.M., see Rodin, A.M. ... 204 (2003) 114
Terasaki, J., see Nazarewicz, W. ... 204 (2003) 1
Terasawa, M., see Bräuning, H. ... 205 (2003) 826
Terashima, K., see Kobayashi, T. ... 206 (2003) 184
Ter-Pogossyan, A.D., see Elbakian, S.S. ... 201 (2003) 44
Terrasi, A., see De Salvador, D. ... 206 (2003) 922
Terry, J., see Donnelly, S.E. ... 206 (2003) 422
Tesfamichael, T., G. Will, M. Colella and J. Bell, Optical and electrical properties of nitrogen ion implanted fluorine doped tin oxide films ... 201 (2003) 581
Tessaro, M., see Bisello, D. ... 210 (2003) 142
Tessier, C., see Vincent, L. ... 207 (2003) 339
Testa, E., see Dauvergne, D. ... 205 (2003) 773
Teterev, Yu.G., see Artukh, A.G. ... 204 (2003) 159
Teyssedre, G., see Laurent, C. ... 208 (2003) 442

the CERN ISOLDE team, see Lindroos, M. . . . 204 (2003) 730
The DRAGON Collaboration, see Chen, A.A. . . . 204 (2003) 619
The EUROTRAPS Collaboration, see Beck, M. . . . 204 (2003) 526
The ISOLDE Collaboration and the Neutrino-Facroty Working Group, see Ravn, H.L. . . . 204 (2003) 197
The ISOLDE Collaboration, see Bergmann, U.C. . . . 204 (2003) 220
The ISOLDE Collaboration, see Beyer, G.J. . . . 204 (2003) 225
The ISOLDE Collaboration, see Catherall, R. . . . 204 (2003) 235
The ISOLDE Collaboration, see Fedosseev, V.N. . . . 204 (2003) 353
The ISOLDE Collaboration, see Jokinen, A. . . . 204 (2003) 86
The ISOLDE Collaboration, see Köster, U. . . . 204 (2003) 303
the ISOLDE Collaboration, see Kester, O. . . . 204 (2003) 20
The ISOLDE Collaboration, see Lettry, J. . . . 204 (2003) 251
The ISOLDE Collaboration, see Lettry, J. . . . 204 (2003) 363
The ISOLDE Collaboration, see Peräjärvi, K. . . . 204 (2003) 272
the ISOLDE Collaboration, see Lindroos, M. . . . 204 (2003) 730
the ISOLDE Collaboration, see Weyer, G. . . . 206 (2003) 90
The JUROSPHERE Collaboration, see Uusitalo, J. . . . 204 (2003) 638
The REX-ISOLDE Collaboration, see Wolf, B.H. . . . 204 (2003) 428
the REX-ISOLDE Collaboration, see Lindroos, M. . . . 204 (2003) 730
The S258 Collaboration, see Savard, G. . . . 204 (2003) 582
the SPIRAL group, see Villari, A.C.C. . . . 204 (2003) 31
Theiß, A., see Bräuning, H. . . . 205 (2003) 555
Theodore, D., see Rangan, S. . . . 206 (2003) 417
Thévenard, P., see Davenas, J. . . . 208 (2003) 170
Thevuthasan, S., W. Jiang, V. Shutthanandan and W.J. Weber, Accumulation of ion beam induced disorder in strontium titanate . . . 206 (2003) 162
Thevuthasan, S., see Wang, C.M. . . . 207 (2003) 1
Thevuthasan, S., see Gao, F. . . . 207 (2003) 63
Thevuthasan, S., see Jiang, W. . . . 207 (2003) 85
Thevuthasan, S., see Jiang, W. . . . 207 (2003) 92
Thevuthasan, S., see Jiang, W. . . . 207 (2003) 453
Thevuthasan, S., A. Meldrum, S.K. Sundaram and L.M. Wang, Editorial . . . 207 (2003) vii
They, J., see Pugachov, D. . . . 201 (2003) 55
Thiaudière, D., see Hennet, L. . . . 207 (2003) 447
Thibeault, S.A., see Kiefer, R.L. . . . 208 (2003) 300
Thiele, H., see Dörschel, B. . . . 207 (2003) 154
Thienpont, H., see Cosentino, L. . . . 209 (2003) 340
Thijsse, B.J., see Haddeman, E.F.C. . . . 202 (2003) 161
Thirolf, P., see Köster, U. . . . 204 (2003) 347
Thirolf, P., see Sikler, G. . . . 204 (2003) 482
Thirolf, P., see Szerypo, J. . . . 204 (2003) 512
Thirolf, P.G., see Kester, O. . . . 204 (2003) 20
Thirolf, P.G., see Habs, D. . . . 204 (2003) 739
Thomas, J.K., see Milosavljevic, B.H. . . . 208 (2003) 185
Thompson, P.E., see Shao, L. . . . 206 (2003) 413
Thorn, D.B., see Beiersdorfer, P. . . . 205 (2003) 173
Thorwarth, G., see Mändl, S. . . . 206 (2003) 517
Thune, E., see Cabioc'h, T. . . . 207 (2003) 409
Tian, X.B., P. Peng and P.K. Chu, Numerical simulation of plasma implanted nitrogen depth profiles in iron . . . 206 (2003) 673
Tian, X.B., see Li, L.H. . . . 206 (2003) 691
Tian, X.B., see Tang, D.L. . . . 206 (2003) 808
Tikhonov, A., see Hanley, L. . . . 203 (2003) 116
Tileva, S., see Zhechev, D. . . . 204 (2003) 387
Tillotson, A., see Beiersdorfer, P. . . . 205 (2003) 173
Timmermans, R., see Berg, G.P. . . . 204 (2003) 532

Tisch, J.W.G., N. Hay, K.J. Mendham, E. Springate, D.R. Symes, A.J. Comley, M.B. Mason, E.T. Gumbrell, T. Ditmire, R.A. Smith, J.P. Marangos and M.H.R. Hutchinson, Interaction of intense laser pulses with atomic clusters: Measurements of ion emission, simulations and applications . . . 205 (2003) 310
TITAN collaboration, see Dilling, J. . . . 204 (2003) 492
Tiwald, T., see Woollam, J.A. . . . 208 (2003) 35
Tkatchenko, A., see Essabaa, S. . . . 204 (2003) 780
Toepffer, C., see Möllers, B. . . . 205 (2003) 285
Toepffer, C., see Heerlein, C. . . . 205 (2003) 395
Toepffer, C., see Müllers, B. . . . 207 (2003) 462
Tognalli, N., see Sánchez, E.A. . . . 203 (2003) 41
Tojo, H., Y. Mokuno, A. Chayahara, S. Iura, H. Kasai, N. Toyohara, T. Hidaka, S. Isogawa, M. Hijino and Y. Horino, Properties of diamond like carbon films by plasma based ion implantation and deposition method applying radio frequency wave and negative high voltage pulses through single feedthrough . . . 206 (2003) 717
Tojyo, E., see Jeong, S.C. . . . 204 (2003) 420
Tojyo, E., see Miyatake, H. . . . 204 (2003) 746
Tok, E.S., see Seng, H.L. . . . 210 (2003) 483
Tokareva, N., see Shirkov, G. . . . 205 (2003) 215
Tőkési, K., see Tawara, H. . . . 205 (2003) 605
Tőkési, K., see Seliger, M. . . . 205 (2003) 830
Tokumoto, S., see Lugão, A.B. . . . 208 (2003) 252
Toleikis, S., see Gumberidze, A. . . . 205 (2003) 374
Toleikis, S., see Bednarz, G. . . . 205 (2003) 573
Toleikis, S., see Dauvergne, D. . . . 205 (2003) 773
Toleikis, S., see Bräuning, H. . . . 205 (2003) 826
Tolstogouzov, A., S. Daolio, C. Pagura, C.L. Greenwood, D.S. Karpuzov and N.S. McIntyre, Energy distributions of Ga^+ and In^+ secondary ions sputtered from $A^{III}B^V$ compound semiconductors by noble gas ions: Mass-dependence of the high-energy yield on the second component (P, As, Sb) of the compounds . . . 203 (2003) 198
Tomaselli, M., see Nörtershäuser, W. . . . 204 (2003) 644
Tomescu, A., see Grosu, E. . . . 208 (2003) 220
Tomizawa, M., see Miyatake, H. . . . 204 (2003) 746
Tomozeiu, N., see Arnoldbik, W.M. . . . 203 (2003) 151
Tomski, I., see Litherland, A.E. . . . 204 (2003) 720
Tong, X.-M., see O'Rourke, B.E. . . . 205 (2003) 378
Tong, X.M., see Watanabe, H. . . . 205 (2003) 417
Tonoyan, V.U., see Grigoryan, L.Sh. . . . 201 (2003) 25
Torigoe, T., see Xu, G.C. . . . 206 (2003) 362
Torii, H.A., see Morishita, Y. . . . 205 (2003) 758
Torii, H.A., see Iwai, Y. . . . 205 (2003) 762
Toriyama, T., see Hayashi, N. . . . 206 (2003) 1066
Torrisi, L., see Gammino, S. . . . 209 (2003) 345
Toulemonde, M., see Neugebauer, R. . . . 209 (2003) 62
Toulemonde, M., see Manika, I. . . . 209 (2003) 93
Toulemonde, M., see Khalfaoui, N. . . . 209 (2003) 165
Toulemonde, M., see Müller, C. . . . 209 (2003) 175
Toulemonde, M., see Wang, Z.G. . . . 209 (2003) 194
Toulemonde, M., see Khalfaoui, N. . . . 209 (2003) 304
Toulemonde, M., see Dauvergne, D. . . . 205 (2003) 773
Towner, I.S., see Melconian, D. . . . 204 (2003) 540
Toyoda, N., see Kitagawa, T. . . . 201 (2003) 405
Toyoda, N., see Yamada, I. . . . 206 (2003) 820
Toyoda, N., see Birtcher, R.C. . . . 206 (2003) 851
Toyoda, N., see Aoki, T. . . . 206 (2003) 855
Toyoda, N., see Fujiwara, Y. . . . 206 (2003) 870
Toyoda, N., Y. Fujiwara and I. Yamada, Stable optical thin film deposition with O_2 cluster ion beam assisted deposition . . . 206 (2003) 875
Toyoda, N., see Kitagawa, T. . . . 206 (2003) 884

Toyoda, N., see Miyauchi, K. ... 206 (2003) 893
Toyohara, N., see Tojo, H. ... 206 (2003) 717
Träbert, E., see Beiersdorfer, P. ... 205 (2003) 62
Träbert, E., P. Beiersdorfer, G. Gwinner, E.H. Pinnington and A. Wolf, M1 transition rates from electron beam ion trap and heavy-ion storage ring ... 205 (2003) 83
Träbert, E., see Beiersdorfer, P. ... 205 (2003) 173
Trassl, R., see Aichele, K. ... 205 (2003) 437
Trassl, R., see Bräuning, H. ... 205 (2003) 555
Trautmann, C., see Papaléo, R.M. ... 206 (2003) 7
Trautmann, C., see Siwy, Z. ... 208 (2003) 143
Trautmann, C., see Schwartz, K. ... 209 (2003) 73
Trautmann, C., see Manika, I. ... 209 (2003) 93
Trautmann, C., see Müller, C. ... 209 (2003) 175
Trautmann, N., see Wendt, K.D.A. ... 204 (2003) 325
Trautwein, A.X., see Rusanov, V. ... 207 (2003) 205
Travers, D., see Mitchell, J.B.A. ... 207 (2003) 227
Traverse, A., see Dhar, S. ... 205 (2003) 741
Tribedi, L.C., see Kadhane, U. ... 205 (2003) 661
Tribedi, L.C., see Singh, Y. ... 205 (2003) 794
Trinczek, M., see Melconian, D. ... 204 (2003) 540
Trinczek, M., see Mironov, V. ... 205 (2003) 183
Trocellier, P., D. Gosset, D. Simeone, J.M. Costantini, X. Deschanels, D. Roudil, Y. Serruys, R. Grynszpan, S. Saudé and M. Beauvy, Application of nuclear reaction geometry for ^{3}He depth profiling in nuclear ceramics ... 206 (2003) 1077
Trocellier, P., see Badillo-Almaraz, V. ... 210 (2003) 424
Trocellier, P., see Orberger, B. ... 210 (2003) 441
Trocellier, P., see Bureau, H. ... 210 (2003) 449
Trocellier, P., D. Gosset, D. Simeone, J.M. Costantini, X. Deschanels, D. Roudil, Y. Serruys, R. Grynszpan, S. Saudé and M. Beauvy, ^{3}He thermal diffusion coefficient measurement in crystalline ceramics by μNRA depth profiling ... 210 (2003) 507
Trocellier, P., see Boizot, B. ... 210 (2003) 537
Trofimov, V.V., see Oganessian, V.R. ... 208 (2003) 166
Troitskiy, V.Yu., see Gerasimenko, N.N. ... 206 (2003) 299
Troitskiy, V.Yu., see Gerasimenko, N.N. ... 206 (2003) 644
Tromas, C., see Girard, J.C. ... 209 (2003) 85
Truica-Marasescu, F., S. Guimond and M.R. Wertheimer, VUV-induced nitriding of polymer surfaces: Comparison with plasma treatments in nitrogen ... 208 (2003) 294
Tsubakino, H., see Kitagawa, T. ... 201 (2003) 405
Tsubakino, H., see Kanda, K. ... 206 (2003) 880
Tsubakino, H., see Kitagawa, T. ... 206 (2003) 884
Tsubouchi, N., see Kinomura, A. ... 210 (2003) 75
Tsuda, O., see Watanabe, T. ... 206 (2003) 726
Tsuji, H., H. Sugahara, Y. Gotoh and J. Ishikawa, Improvement of photocatalytic efficiency of rutile titania by silver negative-ion implantation ... 206 (2003) 249
Tsuji, H., M. Izukawa, R. Ikeguchi, R. Kakinoki, H. Sato, Y. Gotoh and J. Ishikawa, Improvement of polydimethylsiloxane guide tube for nerve regeneration treatment by carbon negative-ion implantation ... 206 (2003) 507
Tsuji, H., N. Arai, M. Motono, Y. Gotoh, K. Adachi, H. Kotaki and J. Ishikawa, Study on optical reflection property from multilayer on Si substrate including nanoparticles in SiO_2 layer ... 206 (2003) 615
Tsuji, H., see Arai, N. ... 206 (2003) 629
Tsujii, H., see Nakano, T. ... 210 (2003) 316
Tsujioka, T., see Nakajima, K. ... 205 (2003) 705
Tsukada, K., see Ichikawa, S. ... 204 (2003) 372
Tsukada, K., see Miyatake, H. ... 204 (2003) 746
Tsukamoto, T., see Yokoyama, Y. ... 206 (2003) 512
Tsukamoto, T., see Yotoriyama, T. ... 206 (2003) 527
Tsukihashi, Y., see Miyatake, H. ... 204 (2003) 746
Tsunoda, I., see Murakami, Y. ... 206 (2003) 304
Tsuruta, T., see Yoshioka, T. ... 207 (2003) 323

Tu, Z.-L., Y. Kobayashi, K. Kiguchi and H. Watanabe, Irradiation effect of different heavy ions and track section on the silkworm *Bombyx mori* 206 (2003) 591
Tu, Z.-L., see Kiguchi, K. 210 (2003) 312
Tunca, R., see Özdemir, S. 208 (2003) 395
Tungate, G., see Nieminen, A. 204 (2003) 563
Tupitsyn, I.I., see Shabaev, V.M. 205 (2003) 20
Turan, R., see Marstein, E.S. 207 (2003) 424
Turkstra, J.W., see Knoop, S. 205 (2003) 560
Turner, M.J.L., see Ambrosi, R.M. 207 (2003) 175
Tuszynski, W., see Koch, K. 209 (2003) 48
Tuzikov, A., see Shirkov, G. 205 (2003) 215
Tyapkin, A.A., see Vodopianov, A.S. 201 (2003) 266
Tyapkin, I.A., see Vodopianov, A.S. 201 (2003) 266
Tyrroff, H., see Friedrich, M. 201 (2003) 645
Tzvetkov, T., see Qin, X. 203 (2003) 130

Ubagai, T., see Kobayashi, T. 206 (2003) 184
Uchaikin, V.V., see Lagutin, A.A. 201 (2003) 212
Uchida, H., see Abe, H. 206 (2003) 224
Uchida, H., see Takeuchi, M. 206 (2003) 259
Udalagama, C.N.B., A.A. Bettiol, J.A. van Kan and F. Watt, Proton beam micromachining dose normalization for SU-8 using ionoluminescence detection 210 (2003) 256
Udalagama, C.N.B., see Teo, E.J. 210 (2003) 501
Uday Kumar, K., see Diwan, P.K. 201 (2003) 389
Ueda, M., see Beloto, A.F. 206 (2003) 677
Ueda, M., G.F. Gomes, E. Abramof and H. Reuther, In-line nitrogen PIII/ion nitriding processing of metallic materials 206 (2003) 749
Ueda, M., I.H. Tan, R.S. Dallaqua, J.O. Rossi, J.J. Barroso and M.H. Tabacniks, Aluminum plasma immersion ion implantation in polymers 206 (2003) 760
Uedono, A., see Abe, H. 206 (2003) 224
Ueno, K., see Kurosawa, M. 210 (2003) 468
Überall, H., see Chouffani, K. 201 (2003) 16
Uggerhøj, E., see Uggerhøj, U.I. 207 (2003) 402
Uggerhøj, U.I., H. Bluhme, H. Knudsen, S.P. Møller, E. Uggerhøj, E. Morenzoni and C. Scheidenberger, Channeling of antiprotons 207 (2003) 402
Uglov, S.R., see Adischev, Y.N. 201 (2003) 114
Ulanski, P., see Rosiak, J.M. 208 (2003) 325
Ullmann, F., see Kentsch, U. 205 (2003) 260
Ullmann, F., see Kentsch, U. 205 (2003) 266
Ullrich, J., see Mironov, V. 205 (2003) 183
Ullrich, J., see Hagmann, S. 205 (2003) 207
Ullrich, J., see Kirchner, T. 205 (2003) 479
Ullschmied, J., see Krása, J. 205 (2003) 355
Umarov, F.F., see Djurabekova, F.G. 206 (2003) 194
Umebayashi, T., see Yamaki, T. 206 (2003) 254
Umebayashi, T., T. Yamaki, T. Sumita, S. Yamamoto, S. Tanaka and K. Asai, UV-ray photoelectron and ab initio band calculation studies on electronic structures of Cr- or Nb-ion implanted titanium dioxide 206 (2003) 264
Umeda, N., see Bandourko, V. 206 (2003) 606
Umeda, N., see Okubo, N. 206 (2003) 610
Umeda, N., see Kishimoto, N. 206 (2003) 634
Umeda, N., V.V. Bandourko, V.N. Vasilets and N. Kishimoto, Metal precipitation process in polymers induced by ion implantation of 60 keV Cu^- 206 (2003) 657
Umeda, N., see Amekura, H. 206 (2003) 1101
Umemiya, S., see Oikawa, M. 210 (2003) 54
Umemori, K., see Okuno, H. 201 (2003) 259
Umirzakov, B.E., see Djurabekova, F.G. 206 (2003) 194
Urakawa, J., see Karataev, P. 201 (2003) 140

Urakawa, J., see Karataev, P. ... 201 (2003) 201
Urbain, X., see Zajfman, D. ... 205 (2003) 360
Urbassek, H.M., see Koster, M. ... 202 (2003) 125
Ushakov, A., see Pugachov, D. ... 201 (2003) 55
Ushida, K., see Kitajima, M. ... 206 (2003) 99
Usmanov, T., see Stepanov, A.L. ... 206 (2003) 624
Utter, S.B., see Beiersdorfer, P. ... 205 (2003) 62
Uusitalo, J., see Enqvist, T. ... 204 (2003) 138
Uusitalo, J., see Page, R.D. ... 204 (2003) 634
Uusitalo, J., P. Jones, P. Greenlees, P. Rahkila, M. Leino, A.N. Andreyev, P.A. Butler, T. Enqvist, K. Eskola, T. Grahn, R.-D. Herzberg, F. Hessberger, R. Julin, S. Juutinen, A. Keenan, H. Kettunen, P. Kuusiniemi, A-P. Leppänen, P. Nieminen, R. Page, J. Pakarinen, C. Scholey and The JUROSPHERE Collaboration, In-beam spectroscopy using the JYFL gas-filled magnetic recoil separator RITU ... 204 (2003) 638
Uzonyi, I., Gy. Szabó, I. Borbély-Kiss and Á.Z. Kiss, Calibration of an UTW Si(Li) detector in the 0.28–22.1 keV energy range at a nuclear microprobe ... 210 (2003) 147
Uzonyi, I., see Sziki, G.Á. ... 210 (2003) 478
Uzun, C., M. Hassnisaber, M. Şen and O. Güven, Enhancement and control of cross-linking of dimethylaminoethyl methacrylate irradiated at low dose rate in the presence of ethylene glycol dimethacrylate ... 208 (2003) 242
Uzun, C., see Şen, M. ... 208 (2003) 480

Vacik, J., H. Naramoto, K. Narumi, S. Yamamoto and H. Abe, RBS and SEM analysis of the nickel–fullerene hybrid systems ... 206 (2003) 395
Vagizov, F.G., see Khaibullin, R.I. ... 206 (2003) 277
Vainshtein, L., see Beigman, I. ... 205 (2003) 427
Valenzuela, T., see Werth, G. ... 205 (2003) 1
Valenzuela, T., see Beier, T. ... 205 (2003) 15
Van Den Bergh, P., see Kester, O. ... 204 (2003) 20
Van den Bergh, P., see Kudryavtsev, Yu. ... 204 (2003) 336
van den Brand, J.F.J., see van den Putte, M.J.J. ... 210 (2003) 21
van den Putte, M.J.J., J.F.J. van den Brand, D.N. Jamieson, B. Rout and R. Szymanski, The Amsterdam quintuplet nuclear microprobe ... 210 (2003) 21
van der Heide, P.A.W., M.S. Lim, S.S. Perry and J. Bennett, A systematic study of the surface roughening and sputter rate variations occurring during SIMS ultrashallow depth profile analysis of Si with Cs^+ ... 201 (2003) 413
Van de Vel, K., see Köster, U. ... 204 (2003) 347
Van Duppen, P., Technological challenges of new radioactive beam facilities ... 204 (2003) 9
Van Duppen, P., see Kester, O. ... 204 (2003) 20
Van Duppen, P., see Scheidenberger, C. ... 204 (2003) 119
Van Duppen, P., see Kudryavtsev, Yu. ... 204 (2003) 336
Van Duppen, P., see Köster, U. ... 204 (2003) 347
van Kan, J.A., see Watt, F. ... 210 (2003) 14
van Kan, J.A., see Bettiol, A.A. ... 210 (2003) 250
van Kan, J.A., see Udalagama, C.N.B. ... 210 (2003) 256
van Kan, J.A., see Sum, T.C. ... 210 (2003) 266
Van Roosbroeck, J., see Köster, U. ... 204 (2003) 347
Van Swygenhoven, H., see Samaras, M. ... 202 (2003) 51
Vandeweert, E., see Bastiaansen, J. ... 203 (2003) 158
Vane, C.R., see Meyer, F.W. ... 203 (2003) 231
Vane, C.R., see Meyer, F.W. ... 205 (2003) 700
Vantomme, A., see Pipeleers, B. ... 206 (2003) 95
Vantomme, A., see Alves, E. ... 206 (2003) 1042
Varentsov, V., see Sikler, G. ... 204 (2003) 482
Varentsov, V., see Schwarz, S. ... 204 (2003) 507
Varentsov, V., see Habs, D. ... 204 (2003) 739
Varisco, P., see Milanez Silva, C. ... 206 (2003) 486
Varoy, C.R., see Johnson, P.B. ... 206 (2003) 1056
Varoy, C.R., see Kennedy, V.J. ... 210 (2003) 543
Vasile, C., see Grosu, E. ... 208 (2003) 220

Vasilets, V.N., see Umeda, N. 206 (2003) 657
Vasina, E., see Shirkov, G. 205 (2003) 215
Vatulin, V., see Shirkov, G. 205 (2003) 215
Vayer, M., see Vincent, L. 207 (2003) 339
Vaz, J., see Clark, J. 204 (2003) 487
Vaz, J., see Savard, G. 204 (2003) 582
Vázquez, M.E., see Ozafrán, M.J. 201 (2003) 317
Verda, R.D., M. Nastasi and R.W. Bower, Boron-induced redistribution of hydrogen implanted at elevated temperature into crystalline silicon 206 (2003) 927
Verdu, J., see Werth, G. 205 (2003) 1
Verdú, J., see Beier, T. 205 (2003) 15
Vereecke, B., see Beck, M. 204 (2003) 521
Vermeulen, M.J.W., see Frahn, M.S. 208 (2003) 405
Verney, D., see Lau, C. 204 (2003) 246
Verney, D., see Essabaa, S. 204 (2003) 780
Vernhet, D., see Adoui, L. 205 (2003) 341
Versyck, S., see Beck, M. 204 (2003) 521
Vervaecke, F., see Bastiaansen, J. 203 (2003) 158
Vervaeke, M., see Cosentino, L. 209 (2003) 340
Vervier, J., Status of the EURISOL project 204 (2003) 759
Veryovkin, I.V., see Belykh, S.F. 203 (2003) 164
Veselov, R., see Shirkov, G. 205 (2003) 215
Veselsky, M., see Souliotis, G.A. 204 (2003) 166
Vesvres, M.H., see Sergeant, C. 210 (2003) 349
Vetter, J., see Oganessian, V.R. 208 (2003) 166
Vichnevetski, E., A.D. Bass and L. Sanche, Measuring the porosity of thin films by the electron stimulated desorption of metastable species 208 (2003) 210
Victoria, M., see Samaras, M. 202 (2003) 51
Vidal, R.A., see Baragiola, R.A. 209 (2003) 294
Viennot, M., see Berger, P. 210 (2003) 519
Vigier, G., see Davenas, J. 208 (2003) 461
Vigneron, G., see Baldacchino, G. 209 (2003) 219
Vijayan, V., see Bhuloka Reddy, S. 207 (2003) 345
Vikor, Gy., see Pešić, Z.D. 203 (2003) 96
Vilaithong, T., see Yu, L.D. 206 (2003) 586
Villari, A.C.C. and the SPIRAL group, First results at SPIRAL-GANIL 204 (2003) 31
Villari, A.C.C., see Gibouin, S. 204 (2003) 240
Vincent, L., T. Sauvage, S. Houdayer, C. Tessier, S. Gautrot, O. Kaïtasov, J. Chaumont and M. Vayer, Secondary ion mass spectrometry depth profiling of ^{59}Co implanted into nickel 207 (2003) 339
Vincent, S.M., see Page, R.D. 204 (2003) 634
Vinogradov, N.E., see Ostroumov, P.N. 204 (2003) 433
Vinogradov, Yu.I., see Rodin, A.M. 204 (2003) 114
Vinsot, C., see Bizau, J.M. 205 (2003) 290
Vishnyakov, V.M., see Donnelly, S.E. 206 (2003) 422
Vittone, E., see Rossi, P. 210 (2003) 123
Vittone, E., A. Lo Giudice, C. Paolini, P. Olivero, C. Manfredotti, R. Barrett and V. Rigato, Ion and X-ray micro-beam induced charge collection and their applications in CVD diamond detector characterisation .. 210 (2003) 159
Vittone, E., see Lo Giudice, A. 210 (2003) 429
Vizkelethy, G., see Doyle, B.L. 210 (2003) 98
Vizkelethy, G., see Rossi, P. 210 (2003) 123
Vizkelethy, G., P.E. Dodd, J.R. Schwank, M.R. Shaneyfelt, D.S. Walsh, F.D. McDaniel and B.L. Doyle, Anomalous charge collection from silicon-on-insulator structures 210 (2003) 211
Vlastou, R., see Kokkoris, M. 201 (2003) 623
Vnukov, A.V., see Adischev, Y.N. 201 (2003) 114
Vnukov, I., see Kubankin, A. 201 (2003) 97
Vnukov, I., see Artru, X. 201 (2003) 243
Vnukov, I.E., see Okuno, H. 201 (2003) 259

Vnukov, I.E., see Bogomazova, E.A. 201 (2003) 276
Vodopianov, A.S., Y.I. Ivanshin, V.I. Lobanov, I.I. Tatarinov, A.A. Tyapkin, I.A. Tyapkin, A.I. Zinchenko, V.P. Zrelov, A.A. Bogdanov, V.A. Kaplin, A.I. Karakash, M.F. Runtzo, M.N. Strikhanov, V.M. Biryukov, Yu.A. Chesnokov, S.B. Nurushev, J. Ruzicka, P. Chochula, M. Ciljak and A. Hrmo, Crystal-assisted extraction of Au ions from RHIC and application of the Au beam for the search of anomalous Cherenkov radiation 201 (2003) 266
Voegeli, W., K. Albe and H. Hahn, Simulation of grain growth in nanocrystalline nickel induced by ion irradiation 202 (2003) 230
Vogel, M., see Werth, G. 205 (2003) 1
Vogt, J., see Spemann, D. 210 (2003) 79
Vogt, J., see Lekki, J. 210 (2003) 472
Voit, F., see Szerypo, J. 204 (2003) 512
Voit, H., see Koch, K. 209 (2003) 48
Voitkiv, A.B., see Müller, C. 205 (2003) 306
Voitkiv, A.B., C. Müller and N. Grün, On the high-energy limits for the double-to-single ionization ratio of helium and helium-like ions in collisions with charged and neutral particles 205 (2003) 504
Vojnovic, B., see Folkard, M. 210 (2003) 302
Volant, C., see Lanzanò, G. 205 (2003) 841
Volant, C., see Lanzanò, G. 209 (2003) 212
Volckaerts, B., see Cosentino, L. 209 (2003) 340
Volckaerts, B., see Dollinger, G. 210 (2003) 6
Völk, H.J., see Aharonian, F.A. 201 (2003) 217
Volkov, A.E., see Sorokin, M.V. 205 (2003) 746
Volkov, A.E. and D.N. Korolev, Nanoprecipitate nucleation caused by swift heavy ions in supersaturated solid solutions 209 (2003) 98
Volkov, A.E., see Borodin, V.A. 209 (2003) 122
Volkov, A.E. and M.V. Sorokin, Nucleation of 2D nanoislands in surface thermal spikes from swift heavy ions 209 (2003) 184
Volkov, Yu.M., see Andrighetto, A. 204 (2003) 267
Volkov, Yu.M., see Panteleev, V.N. 204 (2003) 382
Vollrath, I., see Melconian, D. 204 (2003) 540
Volponi, J.E., see Ruiz, C.S.B. 208 (2003) 309
Volz, K., see Ensinger, W. 206 (2003) 334
von Hahn, R., see Kester, O. 204 (2003) 20
Voronin, V.V., see Fedorov, V.V. 201 (2003) 230
Voss, K., see Siwy, Z. 208 (2003) 143
Voznyy, V., see Miroshnichenko, V.I. 201 (2003) 630
Vukolov, A.V., see Adischev, Y.N. 201 (2003) 114
Vukotich, P., see Andrukhovich, S.K. 207 (2003) 219
Vutsadakis, V., see Apel, P.Yu. 209 (2003) 329
Vynck, P., see Cosentino, L. 209 (2003) 340
Vysotsky, V., see Geissel, H. 204 (2003) 71

Waast, B., see Essabaa, S. 204 (2003) 780
Wach, R.A., see Yoshii, F. 208 (2003) 320
Wada, M., Y. Ishida, T. Nakamura, Y. Yamazaki, T. Kambara, H. Ohyama, Y. Kanai, T.M. Kojima, Y. Nakai, N. Ohshima, A. Yoshida, T. Kubo, Y. Matsuo, Y. Fukuyama, K. Okada, T. Sonoda, S. Ohtani, K. Noda, H. Kawakami and I. Katayama, Slow RI-beams from projectile fragment separators 204 (2003) 570
Wada, M., S. Nishigaito, R. Flauta and T. Kasuya, Modification of bamboo surface by irradiation of ion beams 206 (2003) 557
Wada, S., M. Natsuhori, N. Ito, T. Funayama and Y. Kobayashi, Detection of DNA damage induced by heavy ion irradiation in the individual cells with comet assay 206 (2003) 553
Wada, S., see Kobayashi, Y. 210 (2003) 308
Waddington, J.C., see Svensson, C.E. 204 (2003) 660
Wadsworth, R., see Page, R.D. 204 (2003) 634
Wagner, G.A., see Glasmacher, U.A. 209 (2003) 351
Wagner, G.A., see Lang, M. 209 (2003) 357
Wagner, W., see Grigoryan, L.Sh. 201 (2003) 25
Wagner, W., see Aleinik, A.N. 201 (2003) 34

Wahl, U., see Köster, U. ... 204 (2003) 303
Wahl, U., see Bharuth-Ram, K. ... 206 (2003) 941
Wahl, U., see Alves, E. ... 206 (2003) 1042
Wahl, U., see Alves, E. ... 206 (2003) 1047
Wakabayashi, H., see Hayashi, N. ... 206 (2003) 1066
Wakahara, A., see Nakanishi, Y. ... 206 (2003) 1033
Wakasa, T., see Mori, H. ... 206 (2003) 31
Wakasa, T., see Onoda, S. ... 206 (2003) 444
Wakasa, T., see Hirao, T. ... 206 (2003) 457
Wakasa, T., see Hirao, T. ... 210 (2003) 227
Wakasa, T., see Onoda, S. ... 210 (2003) 232
Wakaya, F., see Itou, M. ... 206 (2003) 1013
Wakui, T., see Koizumi, M. ... 204 (2003) 359
Wall, F.D., see Johnson, C.M. ... 206 (2003) 1062
Wallbank, B., see Smith, A.C.H. ... 205 (2003) 421
Walsh, D.S., see Doyle, B.L. ... 210 (2003) 98
Walsh, D.S., see Vizkelethy, G. ... 210 (2003) 211
Walter, M., see Möllers, B. ... 205 (2003) 285
Walter, M., see Müllers, B. ... 207 (2003) 462
Wang, A., O. Ohashi, N. Yamaguchi, M. Aoki, Y. Higashi and N. Hitomi, Cleaning of diffusion bonding surface by argon ion bombardment treatment ... 206 (2003) 219
Wang, B., see Liu, W. ... 204 (2003) 62
Wang, C.M., see Jiang, W. ... 206 (2003) 1037
Wang, C.M., S. Thevuthasan, F. Gao, V. Shutthanandan, D.E. McCready, S.A. Chambers and C.H.F. Peden, Interface characteristics of iso-structural thin film and substrate pairs ... 207 (2003) 1
Wang, C.M., see Gao, F. ... 207 (2003) 63
Wang, D.Z., see Huang, N.K. ... 207 (2003) 395
Wang, H., see Nörtershäuser, W. ... 204 (2003) 644
Wang, J., see Yang, P. ... 206 (2003) 721
Wang, J., see Li, X. ... 210 (2003) 412
Wang, J.C., see Clark, J. ... 204 (2003) 487
Wang, J.C., see Savard, G. ... 204 (2003) 582
Wang, L., see Zhang, Q.Y. ... 206 (2003) 357
Wang, L.-B., see Müller, P. ... 204 (2003) 536
Wang, L.M., see Zhu, S. ... 206 (2003) 1092
Wang, L.M., see Thevuthasan, S. ... 207 (2003) vii
Wang, P.S., see Zhang, Q.Y. ... 206 (2003) 357
Wang, Q., H. Ogiso, S. Nakano, J. Akedo and H. Ishikawa, Martensitic transformation and the stress induced by 3 MeV ion implantation in an austenite stainless steel sheet ... 206 (2003) 118
Wang, R., see Cui, B. ... 204 (2003) 58
Wang, R.S., see Cheng, X.Q. ... 207 (2003) 301
Wang, S., G. Chen, S. Baccaro, A. Cecilia, Y. Du, J. Nie and Y. Zhang, Radiation hardness of Ce^{3+}-doped heavy germanate glasses ... 201 (2003) 475
Wang, T., see Grambole, D. ... 210 (2003) 526
Wang, X., see Feng, T. ... 206 (2003) 198
Wang, X., see Shao, L. ... 206 (2003) 413
Wang, Y., see Liu, W. ... 204 (2003) 62
Wang, Y., see Gennaro, S. ... 209 (2003) 136
Wang, Z., see Winkler, M. ... 204 (2003) 454
Wang, Z., see Sun, Y. ... 209 (2003) 188
Wang, Z.G., see Zhu, S. ... 206 (2003) 1092
Wang, Z.G., C. Dufour, S. Euphrasie and M. Toulemonde, Electronic thermal spike effects in intermixing of bilayers induced by swift heavy ions ... 209 (2003) 194
Wang, Z.G., Y.F. Jin, E.Q. Xie, J. Liu, Z.Y. Zhu, Y.M. Sun, M.D. Hou, Q.X. Zhang and X.X. Chen, Blue–violet PL band formation in C:SiO_2 films after swift heavy ion irradiation ... 209 (2003) 200
Wang, Z.G., see Zhang, Q.X. ... 209 (2003) 367
Warczak, A., Strong field effects on structure and collisions of high-Z ions ... 205 (2003) 36

Warczak, A., see Stöhlker, Th. ... 205 (2003) 210
Warczak, A., see Gumberidze, A. ... 205 (2003) 374
Warczak, A., see Ma, X. ... 205 (2003) 550
Warczak, A., see Bednarz, G. ... 205 (2003) 573
Warczak, A., see Bräuning, H. ... 205 (2003) 826
Wargelin, B.J., see Beiersdorfer, P. ... 205 (2003) 173
Warman, J.M., see Frahn, M.S. ... 208 (2003) 405
Warr, N., see Kester, O. ... 204 (2003) 20
Washio, M., see Sato, Y. ... 208 (2003) 231
Washio, M., see Oshima, A. ... 208 (2003) 380
Washio, M., see Sato, K. ... 208 (2003) 424
Wasser, A., see Anagnostopoulos, D.F. ... 205 (2003) 9
Wassermann, J., see Spemann, D. ... 210 (2003) 79
Watanabe, E., see Hattori, M. ... 210 (2003) 272
Watanabe, E., see Souno, T. ... 210 (2003) 277
Watanabe, H., see Currell, F.J. ... 205 (2003) 230
Watanabe, H., see Lu, X. ... 205 (2003) 234
Watanabe, H., see O'Rourke, B.E. ... 205 (2003) 378
Watanabe, H., J. Aiken, V. Krastev, X. Lu, B.E. O'Rourke and F.J. Currell, Magnetic and electrode structure design for a new EBIT ... 205 (2003) 239
Watanabe, H., F.J. Currell, H. Kuramoto, Y.M. Li, S. Ohtani, B.E. O'Rourke and X.M. Tong, The measurement of the electron impact ionization cross-sections of hydrogen-like ions ... 205 (2003) 417
Watanabe, H., see Tu, Z.-L. ... 206 (2003) 591
Watanabe, H. and M. Iwaki, In situ observation of Raman scattering from Ag- and W-ions implanted polyimide films during laser irradiation ... 206 (2003) 1106
Watanabe, H. and Y. Sudo, Present status and prospect of microbeams at TIARA ... 210 (2003) 1
Watanabe, H., see Kobayashi, Y. ... 210 (2003) 308
Watanabe, H., see Kiguchi, K. ... 210 (2003) 312
Watanabe, S., N.S. Ishioka, H. Shimomura, H. Muramatsu and T. Sekine, Dose dependence of the production yield of endohedral ^{133}Xe-fullerene by ion implantation ... 206 (2003) 399
Watanabe, S., see Yoshida, M. ... 206 (2003) 712
Watanabe, S., see Tanaka, T. ... 206 (2003) 817
Watanabe, T., K. Yamamoto, O. Tsuda, A. Tanaka, Y. Koga and O. Takai, The influence of DC biasing on the uniformity of a-C:H films for three-dimensional substrates by using a plasma-based ion implantation technique ... 206 (2003) 726
Watanabe, Y., see Jeong, S.C. ... 204 (2003) 420
Watanabe, Y., see Homma-Takeda, S. ... 210 (2003) 368
Watt, F., J.A. van Kan, I. Rajta, A.A. Bettiol, T.F. Choo, M.B.H. Breese and T. Osipowicz, The National University of Singapore high energy ion nano-probe facility: Performance tests ... 210 (2003) 14
Watt, F., see Imaseki, H. ... 210 (2003) 42
Watt, F., see Zmeck, M. ... 210 (2003) 164
Watt, F., see Bettiol, A.A. ... 210 (2003) 250
Watt, F., see Udalagama, C.N.B. ... 210 (2003) 256
Watt, F., see Sum, T.C. ... 210 (2003) 266
Watt, F., see Seng, H.L. ... 210 (2003) 483
Watt, F., see Minqin, R. ... 210 (2003) 336
Watt, F., see Teo, E.J. ... 210 (2003) 501
Watt, F., see Ahmed, M. ... 210 (2003) 548
Weaver, B.A. and A.J. Westphal, Nuclear track-formation models and the response of BP-1 detectors ... 207 (2003) 314
Webb, R.P., S.H. Winston, R.M. Gwilliam, B.J. Sealy, G. Boudreault, C. Jeynes and K.J. Kirkby, Comparison of boron halide, decaborane and B implants in Si from Molecular Dynamics simulations ... 202 (2003) 143
Webb, R.P. and I.H. Wilson, Comparison of protons, carbon and fullerene impacts on a carbon cylinder ... 202 (2003) 217
Weber, B., see Gärtner, K. ... 202 (2003) 255
Weber, C., see Sikler, G. ... 204 (2003) 482
Weber, W.J., see Gao, F. ... 202 (2003) 1
Weber, W.J., F. Gao, W. Jiang and Y. Zhang, Fundamental nature of ion–solid interactions in SiC ... 206 (2003) 1
Weber, W.J., see Thevuthasan, S. ... 206 (2003) 162

Weber, W.J., see Jiang, W. 206 (2003) 1037
Weber, W.J., see Gao, F. 207 (2003) 10
Weber, W.J., see Jiang, W. 207 (2003) 85
Weber, W.J., see Jiang, W. 207 (2003) 92
Weber, W.J., see Jiang, W. 207 (2003) 453
Wei, P., Y. Xu, S. Nagata, K. Narumi and H. Naramoto, Structure and optical properties of germanium implanted with carbon ions 206 (2003) 233
Wei, Y., see Liu, B. 201 (2003) 520
Weick, H., see Geissel, H. 204 (2003) 71
Weick, H., see Scheidenberger, C. 204 (2003) 119
Weick, H., see Tahir, N.A. 204 (2003) 282
Weick, H., see Winkler, M. 204 (2003) 454
Weickert, F., see Dörschel, B. 207 (2003) 154
Weinreich, R., see Köster, U. 204 (2003) 343
Weisshaar, D., see Kester, O. 204 (2003) 20
Weissman, L., see Bergmann, U.C. 204 (2003) 220
Weissman, L., see Köster, U. 204 (2003) 303
Weissman, L., see Köster, U. 204 (2003) 347
Weissman, L., see Fedosseev, V.N. 204 (2003) 353
Weissman, L., see Schwarz, S. 204 (2003) 507
Weissmann, L., see Kester, O. 204 (2003) 20
Wells, A., see Anagnostopoulos, D.F. 205 (2003) 9
Wells, A., see Ambrosi, R.M. 207 (2003) 175
Wenander, F., see Kester, O. 204 (2003) 20
Wenander, F., J. Lettry and M. Lindroos, Transverse emittance investigation of the ISOLDE target-ion sources 204 (2003) 261
Wenander, F., see Wolf, B.H. 204 (2003) 428
Wendler, E., see Wesch, W. 206 (2003) 1018
Wendler, E., A. Kamarou, E. Alves, K. Gärtner and W. Wesch, Three-step amorphisation process in ion-implanted GaN at 15 K 206 (2003) 1028
Wendler, E., see Darowski, N. 209 (2003) 131
Wendt, K., see Blaum, K. 204 (2003) 331
Wendt, K., see Fedosseev, V.N. 204 (2003) 353
Wendt, K.D.A., K. Blaum, Ch. Geppert, R. Horn, G. Passler, N. Trautmann and B.A. Bushaw, Laser resonance ionization for efficient and selective ionization of rare species 204 (2003) 325
Werdich, A., see Mironov, V. 205 (2003) 183
Werner, U., see Siegmann, B. 205 (2003) 629
Werner, U., B. Siegmann, H. Lebius, B. Huber and H.O. Lutz, Multiple ionization and fragmentation of CH_4 in collisions with slow highly charged ions 205 (2003) 639
Werth, G., Th. Beier, S. Djekic, H.-J. Kluge, W. Quint, T. Valenzuela, J. Verdu and M. Vogel, Precision studies in traps: Measurement of fundamental constants and tests of fundamental theories 205 (2003) 1
Werth, G., see Beier, T. 205 (2003) 15
Wertheimer, M.R., Editorial ..... 208 (2003) vii
Wertheimer, M.R., see Dennler, G. 208 (2003) 176
Wertheimer, M.R., see Truica-Marasescu, F. 208 (2003) 294
Wesch, W., A. Kamarou, E. Wendler, K. Gärtner, P.I. Gaiduk and S. Klaumünzer, Ionisation stimulated defect annealing in GaAs and InP 206 (2003) 1018
Wesch, W., see Wendler, E. 206 (2003) 1028
Westphal, A.J., see Weaver, B.A. 207 (2003) 314
Wethekam, S., A. Mertens and H. Winter, Charge exchange of He atoms and ions during grazing collisions with a Ag(1 1 1)-surface 203 (2003) 57
Weyer, G., H.P. Gunnlaugsson, M. Dietrich, M. Fanciulli, K. Bharuth-Ram, R. Sielemann and the ISOLDE Collaboration, Creation and annealing of defect structures in silicon-based semiconductors during and after implantations at 77–500 K 206 (2003) 90
Whang, C.N., see Jeon, G.Y. 206 (2003) 409
Whang, C.-N., see Lee, I.-S. 206 (2003) 522
Wick, K., see Zoufal, T. 208 (2003) 471
Wiedenhoever, I., see Morrissey, D.J. 204 (2003) 90

Wierzchowski, W., see Misiuk, A. 207 (2003) 233
Wieteska, K., see Misiuk, A. 207 (2003) 233
Wight, G.W., see Levy, C.D.P. 204 (2003) 689
Wijesundara, M.B.J., see Hanley, L. 203 (2003) 116
Wilfart, A., see Szerypo, J. 204 (2003) 512
Wilfart, T., see Habs, D. 204 (2003) 739
Will, G., see Tesfamichael, T. 201 (2003) 581
Williams, J.S., see Ruault, M.-O. 206 (2003) 912
Willmann, L., see Berg, G.P. 204 (2003) 532
Wilschut, H.W., see Berg, G.P. 204 (2003) 532
Wilson, I.H., see Webb, R.P. 202 (2003) 217
Wilson, M.T., see Talbert, W.L. 204 (2003) 314
Winfield, J.S., see Shchepunov, V.A. 204 (2003) 447
Wing, N.D., see Rossi, P. 210 (2003) 123
Winger, J.A., see Batchelder, J.C. 204 (2003) 625
Winkler, H., see Rusanov, V. 207 (2003) 205
Winkler, M., see Geissel, H. 204 (2003) 71
Winkler, M., see Scheidenberger, C. 204 (2003) 119
Winkler, M., see Tahir, N.A. 204 (2003) 282
Winkler, M., see Ciavola, G. 204 (2003) 410
Winkler, M., V. Chichkine, K.-H. Behr, H. Geissel, S. Eliseev, A. Kalimov, G. Li, G. Münzenberg, W.R. Plaß, C. Scheidenberger, Z. Wang, H. Weick and H. Wollnik, Development and test of iron-free quadrupole lenses with high magnetic flux densities 204 (2003) 454
Winograd, N., see Postawa, Z. 202 (2003) 168
Winston, S.H., see Webb, R.P. 202 (2003) 143
Winter, H., see Lederer, S. 203 (2003) 23
Winter, H., see Wethekam, S. 203 (2003) 57
Winter, H., see Bernhard, T. 203 (2003) 111
Winter, HP., see Cernusca, S. 203 (2003) 1
Winter, HP., see Lederer, S. 203 (2003) 23
Winter, HP., see Gebeshuber, I.C. 205 (2003) 751
Wirth, B.D., see Bringa, E.M. 202 (2003) 56
Wirth, B.D., see Morishita, K. 202 (2003) 76
Wołowski, J., see Krása, J. 205 (2003) 355
Wojtasiewicz, A., see Lau, C. 204 (2003) 246
Wolf, A., see Träbert, E. 205 (2003) 83
Wolf, A., see Kieslich, S. 205 (2003) 99
Wolf, A., see Zajfman, D. 205 (2003) 360
Wolf, A., see Schnell, M. 205 (2003) 367
Wolf, B.H., see Kester, O. 204 (2003) 20
Wolf, B.H., J. Cederkäll, O. Forstner, F. Wenander, F. Ames, K. Reisinger, L. Liljeby, Ö. Skeppstedt, B. Jonson, G. Nyman and The REX-ISOLDE Collaboration, First radioactive ions charge bred in REXEBIS at the REX-ISOLDE accelerator 204 (2003) 428
Wollersheim, H-J.-J., see Lozeva, R. 204 (2003) 678
Wollnik, H., see Geissel, H. 204 (2003) 71
Wollnik, H., see Ciavola, G. 204 (2003) 410
Wollnik, H., see Winkler, M. 204 (2003) 454
Wołowski, J., see Krása, J. 205 (2003) 355
Wolowski, J., see Gammino, S. 209 (2003) 345
Wolski, R., see Rodin, A.M. 204 (2003) 114
Wong, S.P., see Gao, Y. 206 (2003) 317
Wood, J., see Batchelder, J.C. 204 (2003) 625
Woods, P.J., see Kester, O. 204 (2003) 20
Woollam, J.A., C. Bungay, J. Hilfiker and T. Tiwald, VUV and IR spectroellipsometric studies of polymer surfaces 208 (2003) 35
Woryna, E., see Krása, J. 205 (2003) 355

Wrede, C., A. Hussein, J.G. Rogers and J. D'Auria, A double sided silicon strip detector as a DRAGON end detector 204 (2003) 619
Wu, X., see Zhang, X. 206 (2003) 215
Wu, X., see Zhang, X. 206 (2003) 382
Wucher, A., see Heinrich, R. 207 (2003) 136
Wuilleumier, F.J., see Bizau, J.M. 205 (2003) 290
Wulff, M., see Mitchell, J.B.A. 207 (2003) 227
Wyart, J.-F., see Buchet-Poulizac, M.C. 205 (2003) 106
Wyss, J., see Bisello, D. 210 (2003) 142

Xiang, X., see Zhu, S. 206 (2003) 1092
Xie, E.Q., see Wang, Z.G. 209 (2003) 200
Xie, L.Y., see Dong, C.Z. 205 (2003) 87
Xiong, Q., see Huang, N.K. 207 (2003) 395
Xu, G.C., Y. Hibino, K. Kurotobi, Y. Suzuki and M. Iwaki, Hydrogen contents and related properties of a-C:H formed with unbalanced magnetron sputtering 206 (2003) 330
Xu, G.C., K. Fujita, T. Torigoe and Y. Hibino, The microstructures of yttria-stabilized zirconia deposited with ion-plating apparatus 206 (2003) 362
Xu, J., see Feng, T. 206 (2003) 198
Xu, J.J., see Zhang, Q.Y. 206 (2003) 357
Xu, Q., T. Yoshiie and H.C. Huang, Molecular dynamics simulation of vacancy diffusion in tungsten induced by irradiation 206 (2003) 123
Xu, Y., see Wei, P. 206 (2003) 233

Yamada, I., see Kitagawa, T. 201 (2003) 405
Yamada, I., see Insepov, Z. 202 (2003) 261
Yamada, I., see Insepov, Z. 202 (2003) 283
Yamada, I., J. Matsuo, N. Toyoda and Collaborative Research Centre for Cluster Ion Beam Process Technology, Cluster ion beam process technology 206 (2003) 820
Yamada, I., see Matsuo, J. 206 (2003) 838
Yamada, I., see Nakai, A. 206 (2003) 842
Yamada, I., see Insepov, Z. 206 (2003) 846
Yamada, I., see Birtcher, R.C. 206 (2003) 851
Yamada, I., see Aoki, T. 206 (2003) 855
Yamada, I., see Aoki, T. 206 (2003) 861
Yamada, I., see Nakatsu, O. 206 (2003) 866
Yamada, I., see Fujiwara, Y. 206 (2003) 870
Yamada, I., see Toyoda, N. 206 (2003) 875
Yamada, I., see Kanda, K. 206 (2003) 880
Yamada, I., see Kitagawa, T. 206 (2003) 884
Yamada, I., see Miyauchi, K. 206 (2003) 893
Yamada, I., see Seki, T. 206 (2003) 902
Yamada, S., see Sato, Y. 201 (2003) 571
Yamada, Y., see Kasukabe, Y. 206 (2003) 390
Yamada, Y., see Ishii, K. 206 (2003) 570
Yamaguchi, D., see Sato, Y. 208 (2003) 231
Yamaguchi, H., S. Nagatomi, T. Morishita, K. Degi, A. Tanaka, N. Shikazono and Y. Hase, Mutation induced with ion beam irradiation in rose 206 (2003) 561
Yamaguchi, H., see Morishita, T. 206 (2003) 565
Yamaguchi, H., Y. Sato, H. Imaseki, N. Yasuda, T. Hamano, Y. Furusawa, M. Suzuki, T. Ishikawa, T. Mori, K. Matsumoto, T. Konishi, M. Yukawa and F. Soga, Single particle irradiation system to cell (SPICE) at NIRS 210 (2003) 292
Yamaguchi, K., see Haraguchi, M. 206 (2003) 313
Yamaguchi, K., see Saito, T. 206 (2003) 321
Yamaguchi, N., see Wang, A. 206 (2003) 219
Yamakawa, T., see Mori, H. 206 (2003) 31

Yamaki, D., see Nakazawa, T. 206 (2003) 166
Yamaki, T., see Sumita, T. 206 (2003) 245
Yamaki, T., T. Umebayashi, T. Sumita, S. Yamamoto, M. Maekawa, A. Kawasuso and H. Itoh, Fluorine-doping in titanium dioxide by ion implantation technique 206 (2003) 254
Yamaki, T., see Umebayashi, T. 206 (2003) 264
Yamaki, T., see Yamamoto, S. 206 (2003) 268
Yamamoto, A., see Sasase, M. 209 (2003) 179
Yamamoto, H. and T. Saito, Fabrication and stability of binary clusters by reactive molecular ion irradiation 206 (2003) 42
Yamamoto, H., see Haraguchi, M. 206 (2003) 313
Yamamoto, H., see Saito, T. 206 (2003) 321
Yamamoto, H., M. Nomachi, K. Yasuda, Y. Iwami, S. Ebisu, N. Yamamoto, T. Sakai and T. Kamiya, Fluorine mapping of teeth treated with fluorine-releasing compound using PIGE 210 (2003) 388
Yamamoto, K., see Watanabe, T. 206 (2003) 726
Yamamoto, N., see Yamamoto, H. 210 (2003) 388
Yamamoto, S., see Ookawa, R. 206 (2003) 175
Yamamoto, S., see Takahiro, K. 206 (2003) 206
Yamamoto, S., see Choi, Y. 206 (2003) 241
Yamamoto, S., see Sumita, T. 206 (2003) 245
Yamamoto, S., see Yamaki, T. 206 (2003) 254
Yamamoto, S., see Umebayashi, T. 206 (2003) 264
Yamamoto, S., T. Yamaki, H. Naramoto and S. Tanaka, Characterization of metal-doped TiO_2 films by RBS/channeling 206 (2003) 268
Yamamoto, S., see Vacik, J. 206 (2003) 395
Yamamoto, S., see Takahiro, K. 206 (2003) 639
Yamamoto, S., see Kitazawa, S.-i. 206 (2003) 952
Yamamoto, Y., see Koguchi, Y. 206 (2003) 202
Yamamoto, Y., see Kitahara, N. 206 (2003) 999
Yamamoto, Y., see Meguro, T. 209 (2003) 170
Yamamura, Y., see Muramoto, T. 202 (2003) 289
Yamashita, H., M. Harada, J. Misaka, H. Nakao, M. Takeuchi and M. Anpo, Application of ion beams for preparation of TiO_2 thin film photocatalysts operatable under visible light irradiation: Ion-assisted deposition and metal ion-implantation 206 (2003) 889
Yamashita, H., H. Nakao, M. Takeuchi, Y. Nakatani and M. Anpo, Coating of TiO_2 photocatalysts on super-hydrophobic porous teflon membrane by an ion assisted deposition method and their self-cleaning performance 206 (2003) 898
Yamashita, M., see Lim, J.-W. 206 (2003) 371
Yamato, Y., see Sasa, K. 210 (2003) 48
Yamato, Y., see Furuno, K. 210 (2003) 459
Yamauchi, T., D. Mineyama, H. Nakai, K. Oda and N. Yasuda, Track core size estimation in CR-39 track detector using atomic force microscope and UV–visible spectrophotometer 208 (2003) 149
Yamauchi, T., see Barillon, R. 208 (2003) 336
Yamauchi, T., Y. Somaki, H. Nakai, K. Oda, T. Ikeda, H. Honda and S. Tagawa, Oxidative degradation of CR-39 track detector in the surface region during gamma-irradiation 208 (2003) 489
Yamazaki, H., see Matsuyama, S. 210 (2003) 59
Yamazaki, H., see Satoh, T. 210 (2003) 113
Yamazaki, H., see Oishi, Y. 210 (2003) 117
Yamazaki, H., see Harada, S. 210 (2003) 383
Yamazaki, Y., see Kuroki, K. 203 (2003) 183
Yamazaki, Y., see Wada, M. 204 (2003) 570
Yamazaki, Y., see Oshima, N. 205 (2003) 178
Yamazaki, Y., see Endo, A. 205 (2003) 187
Yamazaki, Y., see Hoshino, M. 205 (2003) 568
Yamazaki, Y., see Okabayashi, N. 205 (2003) 725
Yamazaki, Y., see Morishita, Y. 205 (2003) 758
Yamazaki, Y., see Iwai, Y. 205 (2003) 762
Yamazaki, Y., see Azuma, T. 205 (2003) 779
Yamazaki, Y., see Nakai, Y. 205 (2003) 784

Yan, J., Y.-M. Li and J.-H. Yao, Configuration interaction effect on dielectronic recombination rate of complex ions 205 (2003) 382
Yan, M., see Neyts, E. 202 (2003) 300
Yan, S., see Liu, W. 204 (2003) 62
Yanagisawa, J., see Itou, M. 206 (2003) 1013
Yang, B., see Liu, W. 204 (2003) 62
Yang, B., see Huang, N.K. 207 (2003) 395
Yang, C., see Hearne, S.M. 210 (2003) 181
Yang, C., D.N. Jamieson, C.I. Pakes, D.P. George, S.M. Hearne, A.S. Dzurak, E. Gauja, F. Stanley and R.G. Clark, IBIC characterisation of novel detectors for single atom doping of quantum computer devices 210 (2003) 186
Yang, P., S.C.H. Kwok, P.K. Chu, Y.X. Leng, J.Y. Chen, J. Wang and N. Huang, Haemocompatibility of hydrogenated amorphous carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition 206 (2003) 721
Yang, Y., M.-C. Porté, P. Marmey, A.J. El Haj, J. Amédée and C. Baquey, Covalent bonding of collagen on poly(L-lactic acid) by gamma irradiation 207 (2003) 165
Yano, Y., see Shirkov, G. 205 (2003) 215
Yao, J.-H., see Yan, J. 205 (2003) 382
Yasuda, K., see Higuchi, T. 206 (2003) 103
Yasuda, K., see Sasase, M. 209 (2003) 179
Yasuda, K., see Ito, Y. 209 (2003) 362
Yasuda, K., M. Hatashita, S. Hatori, T. Inomata, R. Ishigami, Y. Ito, T. Kurita, M. Sasase and K. Takagi, Ion microbeam facility at the Wakasa Wan Energy Research Center 210 (2003) 27
Yasuda, K., see Yamamoto, H. 210 (2003) 388
Yasuda, N., see Yamauchi, T. 208 (2003) 149
Yasuda, N., see Imaseki, H. 210 (2003) 42
Yasuda, N., see Yamaguchi, H. 210 (2003) 292
Yasuno, N., see Okamura, M. 206 (2003) 574
Yatagai, F., see Oka, T. 208 (2003) 181
Yatsuzuka, M., see Nishimura, Y. 206 (2003) 696
Yatsuzuka, M., see Oka, Y. 206 (2003) 700
Yavor, M., see Geissel, H. 204 (2003) 71
Yavor, M., see Scheidenberger, C. 204 (2003) 119
Yavor, M., see Tahir, N.A. 204 (2003) 282
Yavor, M.I., see Oganessian, Yu.Ts. 204 (2003) 606
Yazici, A.N. and Z. Öztürk, Thermoluminescence properties of newly generated glow peak 3a in TLD-100 after pre-irradiation heat treatment at 150 °C 201 (2003) 503
Yennello, S.J., see Souliotis, G.A. 204 (2003) 166
Yeremin, A.V., see Oganessian, Yu.Ts. 204 (2003) 606
Yerokhin, V.A., see Beier, T. 205 (2003) 15
Yerokhin, V.A., see Shabaev, V.M. 205 (2003) 20
Yerokhin, V.A., A.N. Artemyev, P. Indelicato and V.M. Shabaev, Quantum electrodynamical effects in heavy highly-charged ions 205 (2003) 47
Yi, Z., see Zhang, X. 206 (2003) 382
Yingling, Y.G. and B.J. Garrison, Photochemical ablation of organic solids 202 (2003) 188
Yip, S., see Romano, A. 202 (2003) 100
Ynsa, M.D., see Ager, F.J. 210 (2003) 401
Yogo, A., T. Majima and A. Itoh, Energy and angular distributions of secondary ions from a C_{60} surface induced by fast heavy ion impacts 203 (2003) 141
Yokota, K., K. Nakamura, T. Kasuya and M. Ohnishi, Phase composition and crystalline structure of titanium nitride deposited on silicon by an ion-beam assisted deposition technique 206 (2003) 386
Yokota, W., see Fukuda, M. 210 (2003) 33
Yokoyama, Y., see Nakao, A. 206 (2003) 211
Yokoyama, Y., T. Tsukamoto, T. Kobayashi and M. Iwaki, Immobilization of collagen by ion bombardment 206 (2003) 512
Yoneda, R., see Sakudo, N. 206 (2003) 687
Yoshida, A., see Wada, M. 204 (2003) 570
Yoshida, A., see Nakanishi, Y. 206 (2003) 1033
Yoshida, K., see Okuno, H. 201 (2003) 259

Yoshida, K., see Fukuda, M. 210 (2003) 33
Yoshida, M., S. Watanabe, T. Tanaka, T. Takagi, M. Shinohara and J.W. Lee, Investigation of diamond-like carbon formed on PET film by plasma-source ion implantation using C_2H_2 and CH_4 ..... 206 (2003) 712
Yoshida, M., see Tanaka, T. 206 (2003) 817
Yoshida, T., see Miyatake, H. 204 (2003) 746
Yoshii, A., see Morita, K. 203 (2003) 239
Yoshii, F., see Chirinos, H. 208 (2003) 256
Yoshii, F., L. Zhao, R.A. Wach, N. Nagasawa, H. Mitomo and T. Kume, Hydrogels of polysaccharide derivatives crosslinked with irradiation at paste-like condition 208 (2003) 320
Yoshii, F., M. Suhartini, N. Nagasawa, H. Mitomo and T. Kume, Modification of biodegradable polymers by radiation crosslinking technique with polyfunctional monomers 208 (2003) 370
Yoshii, F., see Hai, L. 208 (2003) 466
Yoshiie, T., see Xu, Q. 206 (2003) 123
Yoshikawa, N., see Miyatake, H. 204 (2003) 746
Yoshino, M., see Kaneyasu, T. 205 (2003) 624
Yoshioka, T., T. Tsuruta, H. Iwano, T. Danhara and Y. Koguchi, Fission-fragment registration and etching properties of diallyl phthalate with reference to its use as an external detector in fission-track dating 207 (2003) 323
Yoshitake, M., see Akhajdenung, T. 207 (2003) 45
Yoshitake, T., see Murakami, Y. 206 (2003) 304
Yotoriyama, T., T. Tsukamoto, Y. Suzuki and M. Iwaki, Formation of a super-thin film and a self-assembly cellular sheet by ion-beam irradiation 206 (2003) 527
You, Q., see Andrighetto, A. 204 (2003) 205
Young, L., see Moore, I.D. 204 (2003) 701
Yu, K.M., see de M. Azevedo, G. 206 (2003) 1024
Yu, L.D., T. Vilaithong, B. Phanchaisri, P. Apavatjrut, S. Anuntalabhochai, P. Evans and I.G. Brown, Ion penetration depth in the plant cell wall 206 (2003) 586
Yu, Y.H., see Li, W.J. 206 (2003) 339
Yuba, Y., S. Hazama and K. Gamo, Nanostructure fabrication of InP by low energy ion beams 206 (2003) 648
Yuba, Y., see Itou, M. 206 (2003) 1013
Yugo, S., see Fukudome, T. 206 (2003) 287
Yukawa, M., see Imaseki, H. 210 (2003) 42
Yukawa, M., see Yamaguchi, H. 210 (2003) 292
Yukawa, M., see Homma-Takeda, S. 210 (2003) 368
Yukhimchuk, A.A., see Rodin, A.M. 204 (2003) 114
Yukimura, K., see Masamune, S. 206 (2003) 682
Yukimura, K., T. Muraho, M. Kumagai, H. Saito, M. Kohata and T. Maruyama, Effects of pressure on the structure of titanium nitride film in the preparation using metallic plasma-based ion implantation and deposition 206 (2003) 745
Yukimura, K., see Ikehata, T. 206 (2003) 772
Yukimura, K., see Ma, X.X. 206 (2003) 787
Yukimura, K. and T. Muraho, A two-switch mode pulse modulator for plasma-based ion implantation and deposition 206 (2003) 791
Yukimura, K., see Takaki, K. 206 (2003) 794
Yukimura, K., see Ma, X.X. 206 (2003) 813
Yukimura, K., see Tanaka, T. 206 (2003) 817
Yurkon, J., see Bazin, D. 204 (2003) 629

Zabaev, V.N., see Adischev, Y.N. 201 (2003) 114
Zabaev, V.N., see Adischev, Y.N. 201 (2003) 300
Zabransky, B.J., see Savard, G. 204 (2003) 582
Zaharescu, T., see Grosu, E. 208 (2003) 220
Zajfman, D., S. Krohn, M. Lange, H. Kreckel, L. Lammich, D. Strasser, D. Schwalm, X. Urbain and A. Wolf, Physics with molecular ions in storage rings 205 (2003) 360
Zakowicz, S., W. Scheid and N. Grün, Angular distribution and correlation of photons emitted during dielectronic recombination into hydrogen-like ions 205 (2003) 386
Zalar, A., see Piatkowska, A. 206 (2003) 1052
Zamfir, N.V., see Ressler, J.J. 204 (2003) 141

Zamkov, M., see Zouros, T.J.M. ... 205 (2003) 508
Zamkov, M., see Benis, E.P. ... 205 (2003) 517
Zamkov, M., E.P. Benis, P. Richard, T.G. Lee and T.J.M. Zouros, Absolute measurements and calculation of triple electron capture cross sections in fast 0.5–1.1 MeV/u C^{6+} on Ar collisions ... 205 (2003) 522
Zaporojtchenko, V., J. Zekonyte, J. Erichsen and F. Faupel, Etching rate and structural modification of polymer films during low energy ion irradiation ... 208 (2003) 155
Zarour, B. and U. Saalmann, Multiple electron transfer in slow collisions of highly charged ions and atoms ... 205 (2003) 610
Zarour, B., see Hervieux, P.-A. ... 205 (2003) 677
Zawislak, F., see Kling, A. ... 206 (2003) 653
Zeijlmans van Emmichoven, see Hoekstra, R. ... 203 (2003) vii
Zeilhofer, H.-F., see Mändl, S. ... 206 (2003) 517
Zekonyte, J., see Zaporojtchenko, V. ... 208 (2003) 155
Zeller, A., see Bazin, D. ... 204 (2003) 629
Zeller, A.F., see Geissel, H. ... 204 (2003) 71
Zeng, S., see Liu, W. ... 204 (2003) 62
Zettergren, H., see Jensen, J. ... 205 (2003) 643
Zganjar, E.F., see Batchelder, J.C. ... 204 (2003) 625
Zhang, B.H., see An, Z. ... 207 (2003) 268
Zhang, C., see Lu, H.F. ... 206 (2003) 22
Zhang, G., see Li, X. ... 210 (2003) 412
Zhang, H., see Zhang, X. ... 206 (2003) 215
Zhang, H., see Zhang, X. ... 206 (2003) 382
Zhang, H.Q., see Li, L.H. ... 206 (2003) 691
Zhang, J., see Seng, H.L. ... 210 (2003) 483
Zhang, Q., see Sun, Y. ... 209 (2003) 188
Zhang, Q.X., see Wang, Z.G. ... 209 (2003) 200
Zhang, Q.X., M.D. Hou, J. Liu, Z.G. Wang, Y.F. Jin, Z.Y. Zhu and Y.M. Sun, The impact of incident angle on multiple-bit upset in SRAMs ... 209 (2003) 367
Zhang, Q.Y., see Lu, H.F. ... 206 (2003) 22
Zhang, Q.Y., W.J. Zhao, P.S. Wang, L. Wang, J.J. Xu and P.K. Chu, Microstructure, morphology and their annealing behaviors of alumina films synthesized by ion beam assisted deposition ... 206 (2003) 357
Zhang, T., see Liu, W. ... 204 (2003) 62
Zhang, T., see Zhang, X. ... 206 (2003) 215
Zhang, T., see Zhang, X. ... 206 (2003) 382
Zhang, X., G. Li, B. Ding and Z. Liu, Non-Rutherford elastic scattering cross sections of natural magnesium for protons ... 201 (2003) 551
Zhang, X., see Mironov, V. ... 205 (2003) 183
Zhang, X., H. Zhang, X. Wu, T. Zhang, X. Zhang and J. Sang, Structure and wear resistance of tetrahedral amorphous carbon films ... 206 (2003) 215
Zhang, X., see Zhang, X ... 206 (2003) 215
Zhang, X., X. Wu, Z. Yi, T. Zhang and H. Zhang, The TiN/AlN multilayers deposited by filtered vacuum arc deposition ... 206 (2003) 382
Zhang, Y., see Wang, S. ... 201 (2003) 475
Zhang, Y., see Weber, W.J. ... 206 (2003) 1
Zhang, Y., see Jiang, W. ... 207 (2003) 92
Zhang, Y.H., see Li, L.H. ... 206 (2003) 691
Zhao, L., see Yoshii, F. ... 208 (2003) 320
Zhao, W.J., see Zhang, Q.Y. ... 206 (2003) 357
Zhao, Z., see Liu, W. ... 204 (2003) 62
Zhechev, D., V.I. Zhemenik, S. Tileva, G.V. Mishinsky and N. Pyrvanova, A hollow cathode discharge modification as a source of sputtered atoms and their ions ... 204 (2003) 387
Zheglov, E.P., see Khaibullin, R.I. ... 206 (2003) 1115
Zhemenik, V.I., see Zhechev, D. ... 204 (2003) 387
Zhikharev, V.A., see Khaibullin, R.I. ... 206 (2003) 1115
Zhou, Q.G., see Peng, D.Q. ... 201 (2003) 589
Zhou, S.-G., see Schnell, M. ... 205 (2003) 367
Zhou, Z., see Scheidenberger, C. ... 204 (2003) 119

Zhou, Z., see Sikler, G. 204 (2003) 482
Zhou, Z., see Clark, J. 204 (2003) 487
Zhou, Z., see Savard, G. 204 (2003) 582
Zhu, J., see Li, X. 210 (2003) 412
Zhu, S., X.T. Zu, X. Xiang, Z.G. Wang, L.M. Wang and R.C. Ewing, Electron microscopy and optical spectroscopy study of xenon-implanted yttria-stabilized zirconia 206 (2003) 1092
Zhu, Z., see Sun, Y. 209 (2003) 188
Zhu, Z.Y., see Wang, Z.G. 209 (2003) 200
Zhu, Z.Y., see Zhang, Q.X. 209 (2003) 367
Zhurkin, E.E., see Khrushcheva, O. 202 (2003) 68
Zhurkin, E.E. and A.S. Kolesnikov, Atomic scale modelling of Al and Ni(111) surface erosion under cluster impact 202 (2003) 269
Zier, M. and W. Hauffe, Computer simulation of the topography evolution on ion bombarded surfaces 202 (2003) 182
Zimmermann, C., see Nörtershäuser, W. 204 (2003) 644
Zinchenko, A.I., see Vodopianov, A.S. 201 (2003) 266
Zinkle, S.J., see Skuratov, V.A. 203 (2003) 136
Zizak, I., see Darowski, N. 209 (2003) 131
Zlatoustovskiy, S.V., see Rodin, A.M. 204 (2003) 114
Zmeck, M., L. Balk, T. Osipowicz, F. Watt, J. Phang, A. Khambadkone, F.-J. Niedernostheide and H.-J. Schulze, Modeling of deep buried structures in high-power devices based on proton beam induced charge microscopy 210 (2003) 164
Zmeskal, J., see Anagnostopoulos, D.F. 205 (2003) 9
Zohdy, M.H., see El-Naggar, A.M. 201 (2003) 595
Zou, S., see Feng, T. 206 (2003) 198
Zou, S.C., see Li, W.J. 206 (2003) 339
Zou, Y., see Hutton, R. 205 (2003) 114
Zou, Y., see Huang, M. 205 (2003) 119
Zou, Y., see Gumberidze, A. 205 (2003) 374
Zoufal, T., K. Wick and B. Bodmann, The damaging process in irradiated light guides and scintillating fibers 208 (2003) 471
Zouros, T.J.M., see Orbán, A. 205 (2003) 464
Zouros, T.J.M., E.P. Benis, T.W. Gorczyca, A.D. González, M. Zamkov and P. Richard, Differential electron scattering from positive ions measured by zero-degree ion–atom spectroscopy 205 (2003) 508
Zouros, T.J.M., see Benis, E.P. 205 (2003) 517
Zouros, T.J.M., see Zamkov, M. 205 (2003) 522
Zrelov, V.P., see Vodopianov, A.S. 201 (2003) 266
Zschornack, G., see Kentsch, U. 205 (2003) 260
Zschornack, G., see Kentsch, U. 205 (2003) 266
Zsigmond, B., L. Halász and T. Czvikovszky, EB processing of braided carbon fibre composite profiles 208 (2003) 247
Zu, X.T., see Zhu, S. 206 (2003) 1092
Zwicknagel, G., see Möllers, B. 205 (2003) 285
Zwicknagel, G., see Heerlein, C. 205 (2003) 395
Zwicknagel, G., see Müllers, B. 207 (2003) 462
Zyuzin, A., see Lapi, S. 204 (2003) 444

Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research B 210I (2003) 119–153
NIM B
Beam Interactions with Materials & Atoms
www.elsevier.com/locate/nimb

Subject index of volumes 201–210

Basic Data for Materials Modifications and Analysis

Radiation from a charged particle rotating inside a dielectric cylinder, A.S. Kotanjyan 201 (2003) 3
On the wave zone of radiation, V.A. Bordovitsyn, V.G. Bulenok and T.O. Pozdeeva 201 (2003) 9
Radiowave transition radiation at distances less or of the order of the formation zone, S.S. Elbakian, E.D. Gazazian, K.A. Ispirian and A.D. Ter-Pogossyan 201 (2003) 44
Anomalous diffusion equation: Application to cosmic ray transport, A.A. Lagutin and V.V. Uchaikin 201 (2003) 212
Stochastics of multiple electron–photon head-on collisions, A. Kolchuzhkin, A. Potylitsyn, S. Strokov and V. Ababiy 201 (2003) 307
K X-ray production induced by ^{12}C on several elements, M.J. Ozafrán, M.E. Debray, R. Eusebi, A.J. Kreiner, M.E. Vázquez, A. Burlón and P. Stoliar 201 (2003) 317
Small angle multiple scattering of fast ions, physics, stochastic theory and numerical calculations, G. Amsel, G. Battistig and A. L'Hoir 201 (2003) 325
Slowing down of MeV heavy ions with $Z = 6$–29 in PEN ($C_7H_5O_2$), P.K. Diwan, S. Kumar, V. Sharma, S.K. Sharma, V.K. Mittal, B. Sannakki, R.D. Mathad, K. Uday Kumar, S.A. Khan and D.K. Avasthi 201 (2003) 389
Exploratory analysis of a neutron-rich nuclei source based on photo-fission, M. Mirea, O. Bajeat, F. Clapier, S. Essabaa, L. Groza, F. Ibrahim, S. Kandri-Rody, A.C. Mueller, N. Pauwels and J. Proust 201 (2003) 433
Semi-empirical systematics of (n,t) cross-sections for 14.5 MeV neutrons, M. Belgaid, T. Segueni, F. Kadem and M. Asghar 201 (2003) 545
Non-Rutherford elastic scattering cross sections of natural magnesium for protons, X. Zhang, G. Li, B. Ding and Z. Liu 201 (2003) 551
Simultaneous ionization and excitation by photon absorption in He, G.B. Baptista 201 (2003) 555
Improvement of the repulsive part of the classical interatomic potential for SiC, V. Belko, M. Posselt and E. Chagarov 202 (2003) 18
Ion induced electronic excitations in a spin-polarized electron gas, M. Alducin, R. Díez Muiño and J.I. Juaristi 203 (2003) 83
Inelastic energy loss of low energy proton colliding with cryogenic crystals of Ar, Kr and Xe, M. Kato and R. Souda 203 (2003) 89
Inelastic energy loss in large angle scattering of Ar^{9+} ions from Au(111) crystal, Z.D. Pešić, J. Anton, J.H. Bremer, V. Hoffmann, N. Stolterfoht, Gy. Víkor and R. Schuch 203 (2003) 96
Energy loss of protons at surfaces: a local density approach, A. Sarasola, V.H. Ponce and A. Arnau 203 (2003) 104
Ion reactions for isobar separation in accelerator mass spectrometry, A.E. Litherland, I. Tomski and J.P. Doupé 204 (2003) 720
Highly charged ions in exotic atoms research at PSI, D.F. Anagnostopoulos, S. Biri, V. Boisbourdain, M. Demeter, G. Borchert, J.P. Egger, H. Fuhrmann, D. Gotta, A. Gruber, M. Hennebach, P. Indelicato, Y.W. Liu, B. Manil, V.E. Markushin, H. Marton, N. Nelms, A.J. Rusi El Hassani, L.M. Simons, L. Stingelin, A. Wasser, A. Wells and J. Zmeskal 205 (2003) 9
Determination of the electron's mass from g-factor experiments on $^{12}C^{5+}$ and $^{16}O^{7+}$, T. Beier, S. Djekic, H. Häffner, P. Indelicato, H.-J. Kluge, W. Quint, V.M. Shabaev, J. Verdú, T. Valenzuela, G. Werth and V.A. Yerokhin 205 (2003) 15
Theory of the g factor of lithium-like ions, V.M. Shabaev, D.A. Glazov, M.B. Shabaeva, I.I. Tupitsyn, V.A. Yerokhin, T. Beier, G. Plunien and G. Soff 205 (2003) 20
Evaluation of the low-lying energy levels of two- and three-electron configurations for highly charged ions, O.Yu. Andreev, L.N. Labzowsky, G. Plunien and G. Soff 205 (2003) 25
On the problem of "spontaneous pair creation" in strong electric fields, N. Szpak 205 (2003) 30

doi:10.1016/S0168-583X(03)02024-X

Strong field effects on structure and collisions of high-Z ions, A. Warczak 205 (2003) 36
Quantum electrodynamical effects in heavy highly-charged ions, V.A. Yerokhin, A.N. Artemyev, P. Indelicato and V.M. Shabaev 205 (2003) 47
X-ray spectroscopy of high-Z highly charged ions with the Tokyo EBIT, N. Nakamura, D. Kato and S. Ohtani 205 (2003) 57
Hyperfine structure of heavy hydrogen-like ions, P. Beiersdorfer, J.R. Crespo López-Urrutia, S.B. Utter, E. Träbert, M.G.H. Gustavsson, C. Forssén and A.-M. Mårtensson-Pendrill 205 (2003) 62
Autoionizing high-Rydberg states of very heavy Be-like ions: A tool for precision spectroscopy, C. Brandau, T. Bartsch, S. Böhm, C. Böhme, A. Hoffknecht, H. Knopp, S. Schippers, W. Shi, A. Müller, N. Grün, W. Scheid, T. Steih, F. Bosch, B. Franzke, C. Kozhuharov, P.H. Mokler, F. Nolden, M. Steck, T. Stöhlker and Z. Stachura 205 (2003) 66
Theoretical lifetimes for all states of five Cl X configurations, P. Bogdanovich, R. Karpuškienė and I. Martinson 205 (2003) 70
An accurate test of calculated positions and lifetimes for $Ne^{6+}(1s^2 3lnl')\ ^1L$ states ($n = 3$ and 4) using a high-resolution electron spectroscopy, A. Bordenave-Montesquieu, P. Moretto-Capelle and D. Bordenave-Montesquieu 205 (2003) 74
Doubly excited $^3P^e$ resonances in heliumlike ions below $N = 3$ threshold, M.-K. Chen 205 (2003) 78
M1 transition rates from electron beam ion trap and heavy-ion storage ring, E. Träbert, P. Beiersdorfer, G. Gwinner, E.H. Pinnington and A. Wolf 205 (2003) 83
A theoretical study of the 3d–2p resonance to intercombination line-intensity ratio in mid-Z Ne-like ions, C.Z. Dong, L.Y. Xie, S. Fritzsche and T. Kato 205 (2003) 87
Theoretical Auger and photoionization studies for open-shell atoms and ions, S. Fritzsche, H. Aksela, C.Z. Dong, S. Heinäsmäki and J.E. Sienkiewicz 205 (2003) 93
Dielectronic recombination at low energies: Spectroscopy of doubly excited states in beryllium-like Na^{7+} ions, S. Kieslich, S. Böhm, C. Brandau, A. Müller, S. Schippers, W. Shi, G. Gwinner, M. Schnell and A. Wolf 205 (2003) 99
Two-electron one-photon transition relativistic calculations for low-Z elements, J.P. Santos, M.C. Martins, A.M. Costa, F. Parente and P. Indelicato 205 (2003) 102
Extreme UV observation of 3–3 transitions of niobium in near neon-like charge states, M.C. Buchet-Poulizac, A. Cassimi, G. Cremer, J.-P. Grandin, D. Hennecart, X. Husson, E. Jacquet and J.-F. Wyart 205 (2003) 106
EBIT spectroscopy of Pm-like tungsten, R. Hutton, Y. Zou, J. Reyna Almandos, C. Biedermann, R. Radtke, A. Greier and R. Neu 205 (2003) 114
The continuing saga of the Si-like intercombination lines in highly charged ions, Si-like rhodium, M. Huang, R. Hutton, Y. Zou, K. Ando and H. Oyama 205 (2003) 119
Effect of L- and M-shell ionization on the shapes and parameters of the K X-ray spectra of sulphur, K. Słabkowska and M. Polasik 205 (2003) 123
M-subshell ionization in near-central collisions of 20-MeV/amu carbon ions with molybdenum atoms, J. Rzadkiewicz, D. Chmielewska, A. Gójska, Z. Sujkowski, M. Berset, J.-Cl. Dousse, Y.-P. Maillard, O. Mauron, P.-A. Raboud, M. Polasik, J. Hoszowska and M. Pajek 205 (2003) 128
Observation of L-X-ray satellites and hypersatellites in collisions of O and Ne ions with Mo and Pd, M. Czarnota, M. Pajek, D. Banaś, D. Chmielewska, J. Rzadkiewicz, Z. Sujkowski, J.-Cl. Dousse, M. Berset, O. Mauron, Y.-P. Maillard, P.A. Raboud, J. Hoszowska, M. Polasik and K. Słabkowska 205 (2003) 133
Closing of Coster–Kronig transitions in multiply ionised gold atoms, D. Banaś, J. Braziewicz, M. Czarnota, I. Fijał, M. Jaskóła, A. Korman, W. Kretschmer, M. Pajek and J. Semaniak 205 (2003) 139
Study of recombination processes during the expansion phase of titanium-plasma produced by picosecond Nd:glass laser radiation, A.M. Abd El-Hameed, I.M. Azzouz, G.H. Abou-Koura and Y.E.E.-D. Gamal . 205 (2003) 271
Scattering of magnetized electrons by a moving heavy ion, H.B. Nersisyan 205 (2003) 276
Energy loss of high energy ion beams in a disordered plasma, H.B. Nersisyan and A.K. Das 205 (2003) 281
Ion stopping in a magnetized anisotropic electron plasma, B. Möllers, C. Toepffer, M. Walter and G. Zwicknagel 205 (2003) 285
Recent results on the photoionisation of multiply-charged ions, J.M. Bizau, E. Bouisset, C. Blancard, J.P. Champeaux, A. Compant la Fontaine, C. Couillaud, D. Cubaynes, D. Hitz, C. Vinsot and F.J. Wuilleumier 205 (2003) 290
Photoionization of Sc^{2+}: Experimental link with photorecombination of Sc^{3+} by application of detailed balance, S. Schippers, A. Müller, S. Ricz, M.E. Bannister, G.H. Dunn, J. Bozek, A.S. Schlachter, G. Hinojosa, C. Cisneros, A. Aguilar, A.M. Covington, M.F. Gharaibeh and R.A. Phaneuf 205 (2003) 297
Photoionization of C^{2+} ions, A. Müller, R.A. Phaneuf, A. Aguilar, M.F. Gharaibeh, A.S. Schlachter, I. Álvarez, C. Cisneros, G. Hinojosa and B.M. McLaughlin 205 (2003) 301
Trielectronic recombination in Be-like ions, M. Schnell, M.E. Bannister, S. Böhm, G. Gwinner, S. Kieslich, A. Müller, S. Schippers, D. Schwalm, W. Shi, A. Wolf and S.-G. Zhou 205 (2003) 367

Measurement of the field-induced dielectronic recombination rate enhancement of N^{4+} ions differential in the Rydberg quantum number n, S. Böhm, A. Müller, S. Schippers, W. Shi, H. Danared, N. Eklöw, M. Fogel, R. Schuch, N. Djurić, G.H. Dunn and K.B. MacAdam 205 (2003) 370
X-ray transitions studied for decelerated bare and H-like uranium ions at the ESR electron cooler, A. Gumberidze, Th. Stöhlker, G. Bednarz, H.F. Beyer, F. Bosch, X. Cai, S. Hagmann, O. Klepper, C. Kozhuharov, D. Liesen, X. Ma, P.H. Mokler, D. Sierpowski, Z. Stachura, M. Steck, S. Toleikis, A. Warczak and Y. Zou 205 (2003) 374
Dielectronic recombination in highly charged He-like ions, B.E. O'Rourke, F.J. Currell, H. Kuramoto, Y.-M. Li, S. Ohtani, X.-M. Tong and H. Watanabe 205 (2003) 378
Configuration interaction effect on dielectronic recombination rate of complex ions, J. Yan, Y.-M. Li and J.-H. Yao 205 (2003) 382
Angular distribution and correlation of photons emitted during dielectronic recombination into hydrogen-like ions, S. Zakowicz, W. Scheid and N. Grün 205 (2003) 386
Two-step radiative recombination of polarized electrons into bare, high-Z ions, A. Surzhykov, S. Fritzsche and Th. Stöhlker 205 (2003) 391
Scaling law for recombination in electron coolers, C. Heerlein, G. Zwicknagel and C. Toepffer 205 (2003) 395
Ionization–excitation magnetic sublevel cross sections for $He^+(2p)^2P^0$ states following fast electron and proton impact, H. Merabet, R. Bruch, S. Fülling, M. Bailey, A.L. Godunov, J.H. McGuire, A.N. Grum-Grzhimailo and K. Bartschat 205 (2003) 399
Double ionization of helium by electrons: Role of angular correlation between the target electrons, P. Defrance, T.M. Kereselidze and Z.S. Machavariani 205 (2003) 405
Strong contributions of indirect processes to the electron-impact ionization cross section of Sc^+ ions, J. Jacobi, H. Knopp, S. Schippers, W. Shi and A. Müller 205 (2003) 410
High resolution multiple electron impact ionisation of He, Ne, Ar, Kr and Xe atoms close to threshold: Appearance energies and Wannier exponents, B. Gstir, S. Denifl, G. Hanel, M. Rümmele, T. Fiegele, M. Stano, L. Feketeova, S. Matejcik, K. Becker, P. Scheier and T.D. Märk 205 (2003) 413
The measurement of the electron impact ionization cross-sections of hydrogen-like ions, H. Watanabe, F.J. Currell, H. Kuramoto, Y.M. Li, S. Ohtani, B.E. O'Rourke and X.M. Tong 205 (2003) 417
Absolute measurements of cross-sections for near-threshold electron-impact excitation of Na-like and Mg-like multiply-charged ions, A.C.H. Smith, M.E. Bannister, Y.-S. Chung, A.M. Derkatch, N. Djurić, H.F. Krause, D.B. Popovic, B. Wallbank and G.H. Dunn 205 (2003) 421
Electron impact ionization of Kr^{10+}–Kr^{18+} ions, I. Beigman, P. Defrance and L. Vainshtein 205 (2003) 427
Electron-impact multiple ionization of Ba^{q+} ions ($1 \leqslant q \leqslant 13$) via resonant 3d excitation, H. Knopp, C. Böhme, J. Jacobi, S. Ricz, S. Schippers and A. Müller 205 (2003) 433
Electron-impact single and multiple ionization of praseodymium ions, K. Aichele, W. Arnold, H. Bräuning, D. Hathiramani, F. Scheuermann, R. Trassl and E. Salzborn 205 (2003) 437
Fully relativistic cross-sections for electron collisions with very highly stripped ions, D.L. Moores 205 (2003) 444
Electron emission in collisions of highly charged ions with atoms and diatomic molecules, R.D. Rivarola and P.D. Fainstein 205 (2003) 448
Wave-function effects in the formation of ^2S, $^2P_-$ and $^2P_+$ states in collisions of lithium-like O^{5+} ions with He target, A. Orbán, T.J.M. Zouros and B. Sulik 205 (2003) 464
Wave packet approach to the ionization of high-Z, hydrogen-like ions, S. Fritzsche, A. Surzhykov and Th. Stöhlker 205 (2003) 469
Correlation in fast collisions of highly charged ions with atoms, J. Fiol and R.E. Olson 205 (2003) 474
Correlation effects in differential electron-emission spectra obtained from double ionisation of He by fast Au^{53+} impact, T. Kirchner, L. Gulyás, R. Moshammer, M. Schulz and J. Ullrich 205 (2003) 479
Interference effects in electron emission from H_2 by 3 and 5 MeV H^+ impact, S. Hossain, A.S. Alnaser, A.L. Landers, D.J. Pole, H. Knutson, A. Robison, B. Stamper, N. Stolterfoht and J.A. Tanis 205 (2003) 484
Excitation of triply excited Be^+ ($2lnl'n'l''$) states in 300 and 500 keV-Be^++CH_4 collisions, R. Bruch, H. Merabet and K.T. Chung 205 (2003) 488
Formation of doubly charged potassium ions in K^+–He and K^+–Kr collisions in the 1–10 keV energy range, M. Gochitashvili, B. Kikiani and R. Lomsadze 205 (2003) 494
CDW-EIS theoretical calculations of projectile deflection for single ionization in highly charged ion–atom collisions, V.D. Rodríguez 205 (2003) 498
On the high-energy limits for the double-to-single ionization ratio of helium and helium-like ions in collisions with charged and neutral particles, A.B. Voitkiv, C. Müller and N. Grün 205 (2003) 504
Differential electron scattering from positive ions measured by zero-degree ion–atom spectroscopy, T.J.M. Zouros, E.P. Benis, T.W. Gorczyca, A.D. González, M. Zamkov and P. Richard 205 (2003) 508

Comparison of two experimental techniques for the determination of the 1s2s ^{3}S metastable beam fraction in energetic B^{3+} ions, E.P. Benis, M. Zamkov, P. Richard and T.J.M. Zouros 205 (2003) 517
Absolute measurements and calculation of triple electron capture cross sections in fast 0.5–1.1 MeV/u C^{6+} on Ar collisions, M. Zamkov, E.P. Benis, P. Richard, T.G. Lee and T.J.M. Zouros 205 (2003) 522
Ejected electron spectra from highly excited states in high-energy collisions of O^{q+} with He, K. Kawatsura, K. Takahiro, M. Imai, M. Sataka, K. Komaki and H. Shibata 205 (2003) 528
Theoretical study of cusp-electron emission from O^{8+}+Ar collisions, L. Sarkadi 205 (2003) 533
Final-state interaction description of the autoionization of atoms by ion impact in the velocity matching regime, R. Della Picca and R.O. Barrachina 205 (2003) 539
Extracting low-energy electron–atom scattering parameters from ionic measurements, P. Macri and R.O. Barrachina 205 (2003) 543
Coincident Auger electron and recoil ion momentum spectroscopy for low-energy ion–atom collisions, G. Laurent, M. Tarisien, X. Fléchard, P. Jardin, L. Guillaume, P. Sobocinski, L. Adoui, A. Bordenave-Montesquieu, D. Bordenave-Montesquieu, J.-Y. Chesnel, F. Frémont, D. Hennecart, E. Liénard, L. Maunoury, P. Moretto-Capelle and A. Cassimi 205 (2003) 546
Electron–electron interaction in strong central fields studied by resonant transfer and excitation with two-photon processes in U^{91+} – H_2 collisions, X. Ma, P.H. Mokler, G. Bednarz, F. Bosch, A. Gumberidze, C. Kozhuharov, D. Liesen, D. Sierpowski, Z. Stachura, Th. Stöhlker and A. Warczak 205 (2003) 550
Electron transfer and ionisation in homonuclear collisions of triply charged Ar and Kr ions, H. Bräuning, A. Diehl, A. Theiß, R. Trassl and E. Salzborn 205 (2003) 555
Multi-electron processes in slow He^{2+}–Na collisions measured with MOTRIMS, S. Knoop, J.W. Turkstra, R. Morgenstern, R.E. Olson and R. Hoekstra 205 (2003) 560
Angular differential energy gain measurements of highly charged ion–atom collisions at 100 and 120 eV/q, M. Hoshino, Y. Kanai, F. Mallet, Y. Nakai, M. Kitajima, H. Tanaka and Y. Yamazaki 205 (2003) 568
Double-electron capture in relativistic U^{92+} collisions at the ESR gas-jet target, G. Bednarz, D. Sierpowski, Th. Stöhlker, A. Warczak, H. Beyer, F. Bosch, A. Bräuning-Demian, H. Bräuning, X. Cai, A. Gumberidze, S. Hagmann, C. Kozhuharov, D. Liesen, X. Ma, P.H. Mokler, A. Muthig, Z. Stachura and S. Toleikis 205 (2003) 573
State-selective single-electron capture in Ne^{4+}–He collisions, E.Y. Kamber, R. Ali and A.A. Hasan 205 (2003) 577
Studies of state selective electron capture processes by helium-like ions in H and H_2, R.W. McCullough, D.M. Kearns, J.B. Greenwood and H.B. Gilbody 205 (2003) 581
Electron transfer to individual magnetic substates of 3p ^{2}P in collisions of helium-like ions with two-electron targets, A. Konnai, H. Tanuma and N. Kobayashi 205 (2003) 586
Theoretical investigation of the electron capture in collisions of O^{8+} ion with H and He atoms: Comparison between the Landau–Zener and the over-barrier models, L. Lugosi and L. Sarkadi 205 (2003) 591
Two-electron capture processes in collisions of Be^{4+} and Be^{3+} ions with He atoms, N. Shimakura, K. Atarashi, S. Suzuki and T. Shirai 205 (2003) 596
Total cross sections for charge transfer by multiply charged neon and argon ions colliding with various hydrocarbons at keV energies, T. Kusakabe, Y. Miyamoto, R. Ishida, K. Itoh, N. Kuroyanagi, Y. Nakai and T. Shirai 205 (2003) 600
Cascade transition X-rays from electron capture into highly charged ions in collisions with neutral gas targets, H. Tawara, E. Takács, L.P. Ratliff, J.D. Gillaspy and K. Tőkési 205 (2003) 605
Multiple electron transfer in slow collisions of highly charged ions and atoms, B. Zarour and U. Saalmann .. 205 (2003) 610
Alignment measurements in collisions of D_2^+ with doubly charged projectiles, I. Reiser and C.L. Cocke 205 (2003) 614
Orientation dependence of multiple electron transfer in collisions of slow highly charged ions with rare gas dimers, T. Ohyama-Yamaguchi and A. Ichimura 205 (2003) 620
State-selective scattering angular dependent fragmentation of N_2 by slow Kr^{8+} ion impact, T. Kaneyasu, T. Azuma, M. Ehrich, M. Yoshino and K. Okuno 205 (2003) 624
Orientation dependence of N_2 and O_2 multiple ionization in slow and fast collisions with highly charged Xe-ions, B. Siegmann, U. Werner, H. Lebius, B. Huber, H.O. Lutz and R. Mann 205 (2003) 629
Single-electron capture by He^{2+} ions from triatomic molecules, O. Abu-Haija, E.Y. Kamber and S.M. Ferguson 205 (2003) 634
Multiple ionization and fragmentation of CH_4 in collisions with slow highly charged ions, U. Werner, B. Siegmann, H. Lebius, B. Huber and H.O. Lutz 205 (2003) 639
Energy releases in the fission of multiply charged C_{60} ions, J. Jensen, H. Zettergren, A. Fardi, H.T. Schmidt and H. Cederquist 205 (2003) 643
Energy loss in Ar^{16+}, Kr^{16+}, Xe^{16+}–C_{60} collisions at low energy, R. Brédy, J. Bernard, L. Chen, M.C. Buchet-Poulizac, A. Salmoun and S. Martin 205 (2003) 651

Multi-fragmentation of C_{60} induced by $^4He^{2+}$ impact ($E < 60$ keV/amu) and investigated by a multi-correlation technique, A. Rentenier, P. Moretto-Capelle, D. Bordenave-Montesquieu and A. Bordenave-Montesquieu 205 (2003) 656
Effect of collective response on the X-ray emission due to electron capture in high energy bare ion collisions with fullerenes, U. Kadhane, Y.P. Singh, D. Misra and L.C. Tribedi 205 (2003) 661
Fragmentation of thymidine and deoxyadenosine induced by slow multiply charged ions, B. Manil, H. Lebius, B.A. Huber, D. Cormier and A. Pesnelle 205 (2003) 666
Multiple ionization of water by heavy ions: a Monte Carlo approach, C. Champion 205 (2003) 671
Charge transfer, excitation and evaporation in low energy collisions of simple metal clusters and fullerenes with atomic targets, P.-A. Hervieux, L.F. Ruiz, B. Zarour, M.F. Politis, J. Hanssen and F. Martín 205 (2003) 677
Charge emission and decay dynamics of highly charged clusters and micro-droplets, B. Manil, G.E. Ntamack, H. Lebius, B.A. Huber, D. Duft, T. Leisner, F. Chandezon and C. Guet 205 (2003) 684
Interface characteristics of iso-structural thin film and substrate pairs, C.M. Wang, S. Thevuthasan, F. Gao, V. Shutthanandan, D.E. McCready, S.A. Chambers and C.H.F. Peden 207 (2003) 1
Atomic-level simulations of misfit dislocation at the interface of Fe_2O_3/Al_2O_3 system, F. Gao, C.M. Wang, S. Maheswaran and S. Thevuthasan 207 (2003) 63
Classical/quantum correspondence in state selective charge transfer and ionization cross-sections for Li^{q+} ($q = 1$–3) ions with neutral hydrogen, M. Purkait 207 (2003) 101
Experimental benchmarks of the Monte Carlo code PENELOPE, J. Sempau, J.M. Fernández-Varea, E. Acosta and F. Salvat 207 (2003) 107
Determination of 3D dose distribution by PAG and Monte-Carlo simulations, C. Guillerminet, R. Gschwind, L. Makovicka, J. Novotny Jr., V. Spevacek and T. Cechak 207 (2003) 124
The neutron energy distribution to use in Monte Carlo modeling of neutron capture in thermal neutron beams, H. Degenaar and M. Blaauw 207 (2003) 131
Nuclear stopping in transmission experiments, L.G. Glazov and P. Sigmund 207 (2003) 240
ZnO–PbO–B_2O_3 glasses as gamma-ray shielding materials, H. Singh, K. Singh, L. Gerward, K. Singh, H.S. Sahota and R. Nathuram 207 (2003) 257
Backscattering of ^6Li and ^7Li Ions from oxygen below 6 MeV, M. Mayer, B. Diaz-Herrera and M. Schneider 207 (2003) 263
Some recent progress on the measurement of K-shell ionization cross-sections of atoms by electron impact: Application to Ti and Cr elements, Z. An, M.T. Liu, Y.C. Fu, Z.M. Luo, C.H. Tang, C.M. Li, B.H. Zhang and Y.J. Tang 207 (2003) 268
Doppler broadened γ-lines from exotic nuclei, H.O.U. Fynbo 207 (2003) 275
Electron collision processes in gaseous xenon, H. Date, Y. Ishimaru and M. Shimozuma 207 (2003) 373
Activation cross-sections of alpha induced nuclear reactions on iron up to 40 MeV, F. Tárkányi, F. Ditrói, S. Takács, F. Szelecsényi, A. Hermanne and M. Sonck 207 (2003) 381
Material dependence of electronic stopping, P. Sigmund, A. Fettouhi and A. Schinner 209 (2003) 19

Atomic Collisions in Solids

Axial coherent bremsstrahlung of type A in a diamond crystal, K. Chouffani, I. Endo and H. Überall 201 (2003) 16
Planar channeled relativistic electrons and positrons in the field of resonant hypersonic wave, L.Sh. Grigoryan, A.H. Mkrtchyan, H.F. Khachatryan, V.U. Tonoyan and W. Wagner 201 (2003) 25
Coherent transition radiation from spherical electron bunch, B.M. Bolotovskii and A.V. Serov 201 (2003) 49
Polarimetry of coherent polarization radiation, D. Pugachov, J. They, G. Buschhorn, R. Kotthaus, V.L. Morokhovskii, H. Genz, A. Richter and A. Ushakov 201 (2003) 55
On the parametric X-rays along an emitting particle velocity, N. Nasonov and A. Noskov 201 (2003) 67
Transition radiation of fast charged particles on a fiber-like target, thin plates and atomic strings, N.F. Shul'ga and V.V. Syshchenko 201 (2003) 78
Coherent transition radiation of particle bunches in radiowave region, E.D. Gazazian, K.A. Ispirian and M.I. Ivanian 201 (2003) 84
Properties of coherent transition radiation from an electron bunch accelerated in microtron, A.V. Serov, S.V. Levonian and B.M. Bolotovskii 201 (2003) 91
An investigation of the parametric X-rays along the velocity of emitting particle, A. Kubankin, N. Nasonov, V. Sergienko and I. Vnukov 201 (2003) 97
Angular distribution of X-ray radiation by 500 MeV electrons in a tungsten crystal, Y.N. Adischev, S.N. Arishev, A.V. Vnukov, A.V. Vukolov, A.P. Potylitsyn, S.I. Kuznetsov, V.N. Zabaev, B.N. Kalinin, V.V. Kaplin, S.R. Uglov, A.S. Kubankin and N. Nasonov 201 (2003) 114

Transversal spatial distribution of transition radiation by relativistic electron in the formation zone by the dotted detector, S.N. Dobrovolsky and N.F. Shul'ga 201 (2003) 123
Status of optical diffraction radiation experiment at KEK-ATF extraction line, P. Karataev, S. Araki, R. Hamatsu, H. Hayano, T. Hirose, T. Muto, G. Naumenko, A. Potylitsyn and J. Urakawa 201 (2003) 140
Linear polarization of diffraction radiation from slit and beam size determination, A.P. Potylitsyn 201 (2003) 161
Diffraction radiation from ultrarelativistic particles passing through a slit. Determination of the electron beam divergence, N. Potylitsina-Kube and X. Artru 201 (2003) 172
Investigation of resonant polarization radiation of relativistic electrons in gratings at small angles, A.N. Aleinik, O.V. Chefonov, B.N. Kalinin, G.A. Naumenko, A.P. Potylitsyn, G.A. Saruev and A.F. Sharafutdinov .. 201 (2003) 191
Neutron diffraction and optics in noncentrosymmetric crystals. New feasibility of a search for neutron EDM, V.V. Fedorov and V.V. Voronin 201 (2003) 230
Experiment with a crystal-assisted positron source using 6 and 10 GeV electrons, X. Artru, V. Baier, K. Beloborodov, G. Bochek, A. Bogdanov, A. Bozhenok, A. Bukin, S. Burdin, R. Chehab, M. Chevallier, R. Cizeron, D. Dauvergne, T. Dimova, A. Drozdetsky, V. Druzhinin, M. Dubrovin, L. Gatignon, V. Golubev, A. Jejcic, P. Keppler, R. Kirsch, V. Kulibaba, Ph. Lautesse, J. Major, N. Maslov, J.-C Poizat, A. Potylitsin, J. Remillieux, S. Serednyakov, V. Shary, V. Strakhovenko, C. Sylvia and I. Vnukov 201 (2003) 243
Energy spectrum of low energy positrons generated by radiation from relativistic electrons channeled in a crystal, V.A. Dolgikh, Yu.P. Kunashenko and Yu.L. Pivovarov 201 (2003) 253
Experimental study of positron production from a W single crystal by the KEK 8-GeV electron linac beam, H. Okuno, S. Anami, A. Enomoto, K. Furukawa, K. Kakihara, T. Kamitani, Y. Ogawa, A. Ohsawa, T. Oogoe, T. Suwada, R. Hamatsu, K. Sasahara, T. Fujita, K. Umemori, K. Yoshida, V. Ababiy, A.P. Potylitsin and I.E. Vnukov 201 (2003) 259
Crystal-assisted extraction of Au ions from RHIC and application of the Au beam for the search of anomalous Cherenkov radiation, A.S. Vodopianov, Y.I. Ivanshin, V.I. Lobanov, I.I. Tatarinov, A.A. Tyapkin, I.A. Tyapkin, A.I. Zinchenko, V.P. Zrelov, A.A. Bogdanov, V.A. Kaplin, A.I. Karakash, M.F. Runtzo, M.N. Strikhanov, V.M. Biryukov, Yu.A. Chesnokov, S.B. Nurushev, J. Ruzicka, P. Chochula, M. Ciljak and A. Hrmo 201 (2003) 266
Temperature dependence of the electron and ion induced electron emission yield of Al, Cu and Ag, O. Benka and M. Steinbatz 201 (2003) 396
Enhancement of nuclear energy loss of Al_3 cluster during ion beam mixing, W.-H. He, H.-S. Kang, D.-Y. Shen, R. Nie, Y.-X. Shen and F.-R. Ding 201 (2003) 449
Charge state effects in atom-surface scattering, J.N. DeFazio, T.M. Stephen and B.L. Peko 201 (2003) 453
A comparative study of interatomic potentials for copper and aluminum gas phase sputter atom transport simulations, K.T. Kuwata, R.I. Erickson and J.R. Doyle 201 (2003) 566
Charge fraction of 6.0 MeV/n heavy ions with a carbon foil: Dependence on the foil thickness and projectile atomic number, Y. Sato, A. Kitagawa, M. Muramatsu, T. Murakami, S. Yamada, C. Kobayashi, Y. Kageyama, T. Miyoshi, H. Ogawa, H. Nakabushi, T. Fujimoto, T. Miyata and Y. Sano 201 (2003) 571
Finding possible transition states of defects in silicon-carbide and alpha-iron using the dimer method, F. Gao, G. Henkelman, W.J. Weber, L.R. Corrales and H. Jónsson 202 (2003) 1
Topological approach to separate order from disorder in simulated atomic arrays, V.A. Borodin 202 (2003) 13
Molecular dynamics simulation method for calculating fluence-dependent range profiles, J. Peltola, K. Nordlund and J. Keinonen 202 (2003) 132
Crystallographic analysis of amorphization caused by ion irradiation, S.T. Nakagawa, M. Iwatani, T. Ono, Y. Hada and G. Betz 202 (2003) 149
Monte Carlo simulation of the interaction of electrons with supported and unsupported thin films, M. Dapor 202 (2003) 155
Transient sputtering of silicon by argon studied by molecular dynamics simulations, E.F.C. Haddeman and B.J. Thijsse 202 (2003) 161
Molecular dynamic simulations of the sputtering of multilayer organic systems, Z. Postawa, K. Ludwig, J. Piaskowy, K. Krantzman, N. Winograd and B.J. Garrison 202 (2003) 168
Computer modelling of ballistic particle ejection from NaCl, D. Ramasawmy, S.D. Kenny and R. Smith 202 (2003) 175
Computer simulation of the topography evolution on ion bombarded surfaces, M. Zier and W. Hauffe 202 (2003) 182
Computer simulation of chemical erosion of graphite due to hydrogen ion bombardment, J.H. Liang, M. Mayer, J. Roth and W. Eckstein 202 (2003) 195
Theoretical simulations of atomic and polyatomic bombardment of an organic overlayer on a metallic substrate, K.D. Krantzman, R. Fenno, A. Delcorte and B.J. Garrison 202 (2003) 201
Channeling of high energy beams in nanotubes, S. Bellucci, V.M. Biryukov, Yu.A. Chesnokov, V. Guidi and W. Scandale 202 (2003) 236

Computer modeling and electron microscopy of silicon surfaces irradiated by cluster ion impacts, Z. Insepov, L.P. Allen, C. Santeufemio, K.S. Jones and I. Yamada 202 (2003) 261
Atomic scale modelling of Al and Ni(111) surface erosion under cluster impact, E.E. Zhurkin and A.S. Kolesnikov 202 (2003) 269
Molecular dynamics study of damage formation characteristics by large cluster ion impacts, T. Aoki, J. Matsuo and G. Takaoka 202 (2003) 278
Quantum description for the effects of strained layered superlattices on channeling radiation, S.V.S. Nageswara Rao, L.N.S. Prakash Goteti and A.P. Pathak 202 (2003) 312
Molecular projectile effects for kinetic electron emission from carbon- and metal-surfaces bombarded by slow hydrogen ions, S. Cernusca, HP. Winter, F. Aumayr, R. Diez Muiño and J.I. Juaristi 203 (2003) 1
Role of target polarization in the electron capture by ions in metals, R. Díez Muiño 203 (2003) 8
Analysis of charge transfer mechanisms in grazing incidence collisions between $He^+(1s)$ ions and Al(111) surfaces, F.A. Gutierrez, C. Harel, S. Jequier and H. Jouin 203 (2003) 16
Electronic processes near kinematic threshold for grazing scattering of fast hydrogen atoms from a LiF(001) surface, S. Lederer, A. Mertens, H. Winter, F. Aumayr, HP. Winter and V. Staemmler 203 (2003) 23
Penning de-excitation of spin-polarised metastable He atoms on magnetic surfaces: Mg on Fe, R. Moroni, E. Oliveri and L. Mattera 203 (2003) 29
Influence of the charge changing processes on proton induced electron emission from polycrystalline aluminium, N. Pauly, A. Dubus and M. Rösler 203 (2003) 36
Interaction of keV ions with insulator films at grazing incidence: growth characterization and electron emission, E.A. Sánchez, G. Otero, N. Tognalli, O. Grizzi and V.H. Ponce 203 (2003) 41
Wave packet propagation study of the electron transfer in back-scattering of H^- ions from alkali adsorbates on an Al surface, J. Sjakste, A.G. Borisov and J.P. Gauyacq 203 (2003) 49
Charge exchange of He atoms and ions during grazing collisions with a Ag(111)-surface, S. Wethekam, A. Mertens and H. Winter 203 (2003) 57
Ionization by ion impact at grazing incidence on insulator surface, M.L. Martiarena and V.H. Ponce 203 (2003) 62
Behavior of Rydberg atoms at surfaces: energy level shifts and ionization, F.B. Dunning, H.R. Dunham, C. Oubre and P. Nordlander 203 (2003) 69
The corrugation of the electronic surface of Pt(110) observed by surface channeling, W. Heiland and A. Robin 203 (2003) 76
Energy and angular distributions of secondary ions from a C_{60} surface induced by fast heavy ion impacts, A. Yogo, T. Majima and A. Itoh 203 (2003) 141
Features of polyatomic ion emission under sputtering of a silicon single crystal by Au_m cluster ions, Sh. Akhunov, S.N. Morozov and U.Kh. Rasulev 203 (2003) 146
Electronic sputtering of thin SiO_2 films by MeV heavy ions, W.M. Arnoldbik, N. Tomozeiu and F.H.P.M. Habraken 203 (2003) 151
Modeling the multichannel electron transfer during the sputtering of Co atoms, J. Bastiaansen, F. Vervaecke, E. Vandeweert, P. Lievens and R.E. Silverans 203 (2003) 158
Non-additive sputtering of niobium and tantalum as neutral and charged clusters, S.F. Belykh, V.V. Palitsin, I.V. Veryovkin, A. Adriaens and F. Adams 203 (2003) 164
Effect of the relaxation of the electron subsystem excitation in metals on the ionization probability of sputtered atoms, S.F. Belykh, V.V. Palitsin, A. Adriaens and F. Adams 203 (2003) 172
Electron stimulated desorption of cations from C_6H_6 and C_6H_{12} molecules adsorbed on Pt(111) and Ar spacer layer, H. Kawanowa, M. Kondo, K. Hanatani, Y. Gotoh and R. Souda 203 (2003) 178
Potential sputtering of protons from hydrogen- and H_2O-terminated Si(100) surfaces with slow highly charged ions, K. Kuroki, K. Komaki and Y. Yamazaki 203 (2003) 183
Non-linear effects in Ta sputtering by Au_m ions, S.N. Morozov and U.Kh. Rasulev 203 (2003) 192
Energy distributions of Ga^+ and In^+ secondary ions sputtered from $A^{III}B^V$ compound semiconductors by noble gas ions: Mass-dependence of the high-energy yield on the second component (P, As, Sb) of the compounds, A. Tolstogouzov, S. Daolio, C. Pagura, C.L. Greenwood, D.S. Karpuzov and N.S. McIntyre 203 (2003) 198
The interaction of CsCl with films of solid water, A. Borodin, O. Höfft, S. Krischok and V. Kempter 203 (2003) 205
Simulations of the azimuthal distribution of low-energy H atoms scattered off Ag(110) at grazing incidence: DFT many-body versus model pair potentials, P. Cafarelli, M. Richard-Viard, C. Bénazeth, N. Nieuwjaer and N. Lorente 203 (2003) 211
Explanation of the surface peak in charge integrated LEIS spectra, M. Draxler, R. Beikler, E. Taglauer, K. Schmid, R. Gruber, S.N. Ermolov and P. Bauer 203 (2003) 218
Trajectory-dependent energy- and charge-transfer in collisions of $Br^+(^3P_2)$ with Pt(111), P.L. Maazouz, M. Maazouz and D.C. Jacobs 203 (2003) 225

Site-resolved neutralization of slow singly and multiply charged ions during large-angle backscattering collisions with RbI(100), F.W. Meyer, H.F. Krause and C.R. Vane 203 (2003) 231
Ion to neutral yield ratio in near 180° backscattering of keV He^+ ions from insulating targets, K. Morita and A. Yoshii 203 (2003) 239
Guided transmission of 3 keV Ne^{7+} ions through nanocapillaries etched in a PET polymer, N. Stolterfoht, V. Hoffmann, R. Hellhammer, Z.D. Pešić, D. Fink, A. Petrov and B. Sulik 203 (2003) 246
Interaction of highly charged ions with insulator surfaces at low velocities: Estimates for Auger rates, J. Burgdörfer, C.O. Reinhold and F. Meyer 205 (2003) 690
Projectile neutralization in large-angle back-scattering of slow F^{q+}, Ne^{q+} and Ar^{q+} incident on RbI(100), F.W. Meyer, H.F. Krause and C.R. Vane 205 (2003) 700
Energy loss of 15-keV Ar^{q+} ($q = 1$–3) ions reflected from a KCl(001) surface, K. Nakajima, M. Nakamura, T. Tsujioka and K. Kimura 205 (2003) 705
Numerical simulations of electron capture in low energy $He^+(1s)$ on Al(111) collisions, S. Jequier, H. Jouin, C. Harel and F.A. Gutierrez 205 (2003) 709
Charge exchange and surface-induced dissociation of doubly charged molecular ions $C_6H_5^{2+}$, $C_6H_6^{2+}$ and $C_7H_8^{2+}$ upon impact on a stainless steel surface, A. Qayyum, C. Mair, T. Tepnual, W. Schustereder, P. Scheier and T.D. Märk 205 (2003) 714
Step effects in the interaction of highly charged ions (HCI) with a metal surface, A. Robin, D. Niemann, N. Stolterfoht and W. Heiland 205 (2003) 719
Secondary ion emission from a water and fluorine adsorbed Si(100) surface irradiated with electrons and highly charged ions, N. Okabayashi, K. Komaki and Y. Yamazaki 205 (2003) 725
Electron emission from below the surface induced by highly charged ions: Effect of depth distribution of electron excitation and ion transport on the emission properties, A. Dubus, N. Pauly and M. Rösler 205 (2003) 730
Analysis of surface modifications on graphite induced by slow highly charged ion impact, A. Hida, T. Meguro, K. Maeda and Y. Aoyagi 205 (2003) 736
Ion beam mixing in Fe/Si and Ta/Si bilayers: Possible effects of ion charges, S. Dhar, P. Schaaf, K.P. Lieb, N. Bibić, M. Milosavljević, T. Sajavaara, J. Keinonen and A. Traverse 205 (2003) 741
Visible light spectroscopy of Ar^{6+} ions in high Rydberg states produced with a microcapillary target, Y. Morishita, Y. Kanai, K. Ando, R. Hutton, T. Brage, H.A. Torii, K. Komaki, H. Masuda, K. Ishii, F.B. Rosmej and Y. Yamazaki 205 (2003) 758
High-resolution soft X-ray spectroscopy of slow highly charged ions transmitted through a microcapillary target, Y. Iwai, Y. Kanai, Y. Nakai, T. Ikeda, H. Oyama, K. Ando, H. Masuda, K. Nishio, M. Nakao, H.A. Torii, K. Komaki and Y. Yamazaki 205 (2003) 762
Fast ion passing through straight and bent nanotubes, A.A. Greenenko and N.F. Shul'ga 205 (2003) 767
Impact parameter dependent electron capture by decelerated U^{91+} ions at 20 MeV/u using crystal channeling conditions, D. Dauvergne, A. Bräuning-Demian, F. Bosch, H. Bräuning, M. Chevallier, C. Cohen, A. Gumberidze, A. L'Hoir, R. Kirsch, C. Kozhuharov, D. Liesen, P.H. Mokler, J.C. Poizat, C. Ray, Th. Stöhlker, M. Tarisien, E. Testa, S. Toleikis and M. Toulemonde 205 (2003) 773
Angular distribution of X-ray emission from resonant coherently excited highly-charged heavy ions, T. Azuma, T. Muranaka, Y. Takabayashi, T. Ito, C. Kondo, K. Komaki, Y. Yamazaki, S. Datz, E. Takada and T. Murakami 205 (2003) 779
Resonant coherent excitation of 94 MeV/u Ar^{17+} ions channeling through a Si crystal, Y. Nakai, T. Ikeda, Y. Kanai, T. Kambara, N. Fukunishi, T. Azuma, K. Komaki, Y. Takabayashi and Y. Yamazaki 205 (2003) 784
Inner-shell vacancy production and multiple ionization effects in 0.1–1.75 MeV/u Mn, Fe, Co, Ni, Cu+Au, Bi collisions, C. Ciortea, I. Piticu, D.E. Dumitriu, D. Fluerașu, A. Enulescu, S.Z. Szilagyi, S.E. Enescu, M.M. Gugiu and T.A. Dumitrescu 205 (2003) 789
M-shell X-ray production cross sections of Bi induced by highly charged F ions, Y. Singh and L.C. Tribedi 205 (2003) 794
Highly excited states of sulphur projectiles inside a carbon target, U. Majewska, J. Braziewicz, M. Polasik, K. Słabkowska, I. Fijał, M. Jaskóła, A. Korman, S. Chojnacki and W. Kretschmer 205 (2003) 799
Impact parameter dependent stopping power for highly charged ions, M. Moneta and J. Czerbniak 205 (2003) 808
The role of transient excitations of fast highly charged ions in their stopping kinetics, V.V. Balashov 205 (2003) 813
Quantum trajectory Monte Carlo method describing the coherent dynamics of highly charged ions, T. Minami, C.O. Reinhold and J. Burgdörfer 205 (2003) 818
Multiple electron capture from thin C-foils into 46 MeV/u U^{91+}, H. Bräuning, A. Bräuning-Demian, G. Bednarz, F. Bosch, X. Cai, C. Cohen, D. Dauvergne, A. Gumberidze, R. Kirsch, C. Kozhuharov, D. Liesen, P.H. Mokler, J.-P. Rozet, Z. Stachura, Th. Stöhlker, M. Terasawa, S. Toleikis and A. Warczak 205 (2003) 826

Highly transverse velocity distribution of convoy electrons emitted by highly charged ions, M. Seliger, K. Tőkési, C.O. Reinhold and J. Burgdörfer 205 (2003) 830
Saturation effects in highly charged ion interaction with thin carbon foils, B. Gervais, M. Beuve, M. Caron and H. Rothard 205 (2003) 835
Recent results on fast intermediate velocity electron production induced by 19^{+} 45 AMeV ^{58}Ni highly charged ions on thin solid targets, G. Lanzanò, E. De Filippo, A. Anzalone, N. Arena, M. Geraci, F. Giustolisi, A. Pagano, H. Rothard and C. Volant 205 (2003) 841
Fundamental nature of ion–solid interactions in SiC, W.J. Weber, F. Gao, W. Jiang and Y. Zhang 206 (2003) 1
Cratering by MeV–GeV ions as a function of angle of incidence, R.M. Papaléo, R. Leal, C. Trautmann and E.M. Bringa 206 (2003) 7
Crystallographic analysis of the amorphization caused by ion irradiation: Self-irradiation, S.T. Nakagawa ... 206 (2003) 13
Stopping of energetic ions in carbon nanotubes, J. Pomoell, A.V. Krasheninnikov, K. Nordlund and J. Keinonen 206 (2003) 18
Adatom, vacancy and sputtering yields of low energy Pt atoms impacts on Pt(111) by molecular dynamics simulation, H.F. Lu, C. Zhang and Q.Y. Zhang 206 (2003) 22
Preferential sputtering from the surface of amorphous carbon nitride (a-C:N) thin films upon ion implantation, H. Kakiuchi and T. Terai 206 (2003) 27
Modeling of transient charge collection induced by an angled single ion strike, H. Mori, T. Hirao, J.S. Laird, S. Onoda, T. Wakasa, T. Yamakawa, H. Itoh, T. Okamoto and Y. Koizumi 206 (2003) 31
TCAD modeling of single MeV ion induced charge collection processes in Si devices, J.S. Laird, T. Hirao, S. Onoda, H. Mori and H. Itoh 206 (2003) 36
Effect of external bias potential on secondary charged emissions from polycarbonate by C_1^+ and C_8^+ bombardments, K. Hirata, Y. Saitoh, K. Narumi and Y. Kobayashi 206 (2003) 47
Comparative study of target atomic number dependence of ion induced and electron induced secondary electron emission, K. Ohya 206 (2003) 52
Observation of local heating in an ion track by measuring the ion-induced luminescence spectrum, M. Koshimizu, K. Shibuya, K. Asai and H. Shibata 206 (2003) 57
Heat spike effect on the straggling of cluster implants, J. Peltola, K. Nordlund and J. Keinonen 206 (2003) 61
Burrowing of cobalt nanoclusters in copper, J. Frantz, K. Nordlund and J. Keinonen 206 (2003) 66
Formation of micrometer sized crater shaped pits in silicon by low-energy $^{22}Ne^{+}$ implantation and electron beam annealing, A. Markwitz, V.J. Kennedy and H. Baumann 206 (2003) 179
Surface morphology of glassy carbon irradiated with nitrogen ions, K. Takahiro, R. Ookawa, K. Kawatsura, F. Nishiyama, S. Nagata, S. Yamamoto, K. Narumi, H. Naramoto and M. Iwaki 206 (2003) 206
Ion penetration depth in the plant cell wall, L.D. Yu, T. Vilaithong, B. Phanchaisri, P. Apavatjrut, S. Anuntalabhochai, P. Evans and I.G. Brown 206 (2003) 586
Interplay of surface adsorption and preferential sputtering in metal plasma immersion ion implantation and deposition, S. Mändl, D. Manova and B. Rauschenbach 206 (2003) 663
Numerical simulation of plasma implanted nitrogen depth profiles in iron, X.B. Tian, P. Peng and P.K. Chu . 206 (2003) 673
Photon-enhanced secondary electron emission at target in plasma immersion ion implantation, K. Nakamura, M. Ando and H. Sugai 206 (2003) 798
Atomistic study of cluster collision on solid surfaces, J. Matsuo, T. Seki, T. Aoki and I. Yamada 206 (2003) 838
Modeling of surface smoothing process by cluster ion beam irradiation, A. Nakai, T. Aoki, T. Seki, J. Matsuo, G.H. Takaoka and I. Yamada 206 (2003) 842
Crater formation and sputtering by cluster impacts, Z. Insepov, L.P. Allen, C. Santeufemio, K.S. Jones and I. Yamada 206 (2003) 846
Gold nanoparticles sputtered by single ions and clusters, R.C. Birtcher, A.W. McCormick, P.M. Baldo, N. Toyoda, I. Yamada and J. Matsuo 206 (2003) 851
Cluster species and cluster size dependence of damage formation by cluster ion impact, T. Aoki, J. Matsuo, G. Takaoka and I. Yamada 206 (2003) 866
Atomic simulation of ion–solid interaction in ceramics, F. Gao and W.J. Weber 207 (2003) 10
Projectile size effects on cluster formation in sputtering, R. Heinrich and A. Wucher 207 (2003) 136
Electron loss from fast partially stripped C and O ions incident on crystal targets, H. Kudo, K.-i. Takeda, T. Suguri, W. Iwazaki, C. Sakurai, I. Arano, S. Numazawa and S. Seki 207 (2003) 283
XPS study of hydrogen permeation effect on SiC–C films, N.K. Huang, D.Z. Wang, Q. Xiong and B. Yang .. 207 (2003) 395
Channeling of antiprotons, U.I. Uggerhøj, H. Bluhme, H. Knudsen, S.P. Møller, E. Uggerhøj, E. Morenzoni and C. Scheidenberger 207 (2003) 402
Molecular dynamics simulations of Coulomb explosion, E.M. Bringa 209 (2003) 1

Collision induced cluster fragmentation: From fragment size distributions to the caloric curve, B. Farizon, M. Farizon, M.J. Gaillard, F. Gobet, J.P. Buchet, M. Carré, P. Scheier and T.D. Märk ... 209 (2003) 9
Spectroscopy of Si-Auger electrons from the center of heavy-ion tracks, G. Schiwietz, M. Roth, K. Czerski, F. Staufenbiel, M. Rösler and P.L. Grande ... 209 (2003) 26
Atomic transport in hot ion tracks, W. Bolse and B. Schattat ... 209 (2003) 32
Metal clusters in strong fields, P.-G. Reinhard and E. Suraud ... 209 (2003) 41
Luminescence induced by swift atomic ions in samples with nanoscale dimensions, K. Koch, W. Tuszynski and H. Voit ... 209 (2003) 48
The influence of energy density inside the nuclear track on the secondary-ion emission, R. Neugebauer, T. Jalowy, J.A.M. Pereira, E.F. da Silveira, H. Rothard, M. Toulemonde and K.O. Groeneveld ... 209 (2003) 62
Recent results on fast electron production induced by energetic heavy ions on thin solid targets, G. Lanzanò, A. Anzalone, N. Arena, E. De Filippo, M. Geraci, F. Giustolisi, A. Pagano, H. Rothard and C. Volant ... 209 (2003) 212
Cooling and heating of channeled ions and corresponding charge state distributions, M. Schubert, F. Grüner, W. Assmann, F. Bell, A. Bergmaier, L. Goergens, O. Schmelmer, G. Dollinger and S. Karamian ... 209 (2003) 224
Cluster-ion emission from semiconductive chemical compounds under MeV-energy heavy ion bombardment, S. Ninomiya, S. Gomi, C. Imada, M. Nagai, M. Imai and N. Imanishi ... 209 (2003) 233
Secondary electron spectra for fast proton impact on gaseous and liquid water, D. Emfietzoglou and M. Moscovitch ... 209 (2003) 239
Stopping of swift ions under channeling condition: Influence of the projectile electronic structure on the effective charge, M. Moneta and J. Czerbniak ... 209 (2003) 246
Judging the reliability of stopping power tables and programs for heavy ions, H. Paul and A. Schinner ... 209 (2003) 252
Energy loss and charge state dependency of swift N^{q+} ions scattered off a Pt(110)(1 × 2) surface, A. Robin, N. Hatke, J. Jensen, D. Plachke, H.D. Carstanjen and W. Heiland ... 209 (2003) 259
Projectile energy loss and final charge state distribution in Xe^{q+}–C_{60} collisions at low energy, S. Martin, R. Brédy, J. Bernard, L. Chen, M.C. Buchet-Poulizac and A. Salmoun ... 209 (2003) 265
Electronic excitation induced sputtering of insulating and semiconducting oxides by high energy heavy ions, N. Matsunami, M. Sataka, A. Iwase and S. Okayasu ... 209 (2003) 288
Sputtering of water ice, R.A. Baragiola, R.A. Vidal, W. Svendsen, J. Schou, M. Shi, D.A. Bahr and C.L. Atteberrry ... 209 (2003) 294
Neutral atom sputtering yields from $Gd_3Ga_5O_{12}$ and $Y_3Fe_5O_{12}$ garnets: Observation of a velocity effect, N. Khalfaoui, M. Beuve, S. Bouffard, M. Caron, H. Rothard, S. Schlutig, J.P. Stoquert and M. Toulemonde 209 (2003) 304
Etching kinetics of swift heavy ion irradiated silicone rubber with insoluble additives or reaction products, D. Fink, M. Müller, A. Petrov, L. Farenzena, M. Behar and R.P. Papaleo ... 209 (2003) 310

Ion and Laser Beam Modification of Materials

Hard DLC film formation by gas cluster ion beam assisted deposition, T. Kitagawa, I. Yamada, N. Toyoda, H. Tsubakino, J. Matsuo, G.H. Takaoka and A. Kirkpatrick ... 201 (2003) 405
Transmission electron microscopy porometry of etched pore channels in track membranes, V.F. Reutov, S.N. Dmitriev and A.S. Sokhatsky ... 201 (2003) 460
Effect of boron ion implantation on the structural and optical properties of polycrystalline $Cd_{0.96}Zn_{0.04}$ Te thin films, M. Sridharan, Sa.K. Narayandass, D. Mangalaraj and Hee Chul Lee ... 201 (2003) 465
Optical and electrical properties of nitrogen ion implanted fluorine doped tin oxide films, T. Tesfamichael, G. Will, M. Colella and J. Bell ... 201 (2003) 581
The air oxidation behavior of lanthanum ion implanted zirconium at 500 °C, D.Q. Peng, X.D. Bai, X.W. Chen and Q.G. Zhou ... 201 (2003) 589
Water resistance and surface morphology of synthetic fabrics covered by polysiloxane/acrylate followed by electron beam irradiation, A.M. El-Naggar, M.H. Zohdy, S.S. Mohammed and E.A. Alam ... 201 (2003) 595
Nonequilibrium self-organization in alloys under irradiation leading to the formation of nanocomposites, R.A. Enrique, K. Nordlund, R.S. Averback and P. Bellon ... 202 (2003) 206
Making junctions between carbon nanotubes using an ion beam, A.V. Krasheninnikov, K. Nordlund, J. Keinonen and F. Banhart ... 202 (2003) 224
Kinetic Monte Carlo simulation of self-organized pattern formation in thin film deposition, F. Elsholz, M. Meixner and E. Schöll ... 202 (2003) 249
Molecular dynamics simulations of solid-phase epitaxial growth in silicon, K. Gärtner and B. Weber ... 202 (2003) 255
MD simulation of surface smoothing due to cluster impact, T. Muramoto, N. Hirotani, K. Itabasi, A. Harada and Y. Yamamura ... 202 (2003) 289

Non-Arrhenius growth behavior, bilayer and reentrant layer growth for ultrathin Co films on Cu(001), T. Bernhard, R. Pfandzelter and H. Winter 203 (2003) 111
Controlling the nanoscale morphology of organic films deposited by polyatomic ions, L. Hanley, Y. Choi, E.R. Fuoco, F. Ahu Akin, M.B.J. Wijesundara, M. Li, A. Tikhonov and M. Schlossman 203 (2003) 116
Reaction of 5 eV O^+ with a decanethiolate/Au(1 1 1) self-assembled monolayer, X. Qin, T. Tzvetkov and D.C. Jacobs 203 (2003) 130
Swift heavy ion-induced modification of Al_2O_3 and MgO surfaces, V.A. Skuratov, S.J. Zinkle, A.E. Efimov and K. Havancsak 203 (2003) 136
Model of nanoisland nucleation in surface thermal spikes caused by energetic electronic excitations, M.V. Sorokin and A.E. Volkov 205 (2003) 746
Fabrication and stability of binary clusters by reactive molecular ion irradiation, H. Yamamoto and T. Saito . 206 (2003) 42
Amorphous pocket model for silicon based on molecular dynamics simulations, G. Hobler and G. Otto 206 (2003) 81
Effect of aspect ratio on phase changes of rare-gas precipitates in an Al matrix, K. Mitsuishi, M. Song, K. Furuya, C.W. Allen, R.C. Birtcher and U. Dahmen 206 (2003) 109
Formation of carbon needles from fluoropolymer by ion irradiation followed by defluorination, T. Kobayashi, M. Iwaki, T. Ubagai and K. Terashima 206 (2003) 184
Atomic fingers, bridges and slingshots: formation of exotic surface structures during ion irradiation of heavy metals, K. Nordlund, J. Tarus, J. Keinonen, S.E. Donnelly and R.C. Birtcher 206 (2003) 189
Effect of high-dose low-energy reactive-ion implantation on cold cathode properties, F.G. Djurabekova, B.E. Umirzakov, F.F. Umarov and Y. Miyagawa 206 (2003) 194
Nodose carbon nanotubes and its field emission characteristics, T. Feng, Q. Li, J. Xu, X. Wang, X. Liu and S. Zou 206 (2003) 198
Potassium ion implantation into glassy carbon, A. Nakao, M. Iwaki and Y. Yokoyama 206 (2003) 211
Structure and wear resistance of tetrahedral amorphous carbon films, X. Zhang, H. Zhang, X. Wu, T. Zhang, X. Zhang and J. Sang 206 (2003) 215
Cleaning of diffusion bonding surface by argon ion bombardment treatment, A. Wang, O. Ohashi, N. Yamaguchi, M. Aoki, Y. Higashi and N. Hitomi 206 (2003) 219
Improvement of hydrogen absorption rate of Pd by ion irradiation, H. Abe, H. Uchida, Y. Azuma, A. Uedono, Z.Q. Chen and H. Itoh 206 (2003) 224
Creation of hydrogen gas emitting function in proton conducting oxide ceramics by hydrogen implantation, K. Morita, H. Suzuki and K. Soda 206 (2003) 228
Structure and optical properties of germanium implanted with carbon ions, P. Wei, Y. Xu, S. Nagata, K. Narumi and H. Naramoto 206 (2003) 233
Influence of carbon-ion irradiation and hydrogen-plasma treatment on photocatalytic properties of titanium dioxide films, Y. Choi, S. Yamamoto, H. Saitoh, T. Sumita and H. Itoh 206 (2003) 241
Ion beam modification of photo-induced charge separation in TiO_2 films, T. Sumita, T. Yamaki, S. Yamamoto and A. Miyashita 206 (2003) 245
Improvement of photocatalytic efficiency of rutile titania by silver negative-ion implantation, H. Tsuji, H. Sugahara, Y. Gotoh and J. Ishikawa 206 (2003) 249
Fluorine-doping in titanium dioxide by ion implantation technique, T. Yamaki, T. Umebayashi, T. Sumita, S. Yamamoto, M. Maekawa, A. Kawasuso and H. Itoh 206 (2003) 254
Photoinduced hydrophilicity of TiO_2 thin film modified by Ar ion beam irradiation, M. Takeuchi, Y. Onozaki, Y. Matsumura, H. Uchida and T. Kuji 206 (2003) 259
UV-ray photoelectron and ab initio band calculation studies on electronic structures of Cr- or Nb-ion implanted titanium dioxide, T. Umebayashi, T. Yamaki, T. Sumita, S. Yamamoto, S. Tanaka and K. Asai 206 (2003) 264
Optical properties of YSZ implanted with Ag ions, Y. Saito, Y. Imamura and A. Kitahara 206 (2003) 272
Coloration of natural beryl by iron ion implantation, R.I. Khaibullin, O.N. Lopatin, F.G. Vagizov, V.V. Bazarov, A.I. Bakhtin, I.B. Khaibullin and B. Aktas 206 (2003) 277
Ion beam modification of ZnO thin films on MgO, N. Matsunami, M. Itoh, Y. Takai, M. Tazawa and M. Sataka 206 (2003) 282
Optical characterization of Er-implanted ZnO films formed by sol–gel method, T. Fukudome, A. Kaminaka, H. Isshiki, R. Saito, S. Yugo and T. Kimura 206 (2003) 287
Modification in optical properties of negative Cu ion implanted ZnO, K. Kono, S.K. Arora and N. Kishimoto 206 (2003) 291
Modification of Fe–Ni Invar alloys by high-energy ion beams, F. Ono, Y. Hamatani, Y. Mukumoto, S. Komatsu, N. Ishikawa, Y. Chimi, A. Iwase, T. Kambara, C. Müller and R. Neumann 206 (2003) 295
Fractal, wavelet and Fourier analysis for investigation of nanoscale $CoSi_2$ structures in Si produced by ion synthesis, N.N. Gerasimenko, M.N. Pavluchenko, V.D. Levchenko, K.K. Djamanbalin, V.Yu. Troitskiy and A.M. Skobochkin 206 (2003) 299
Enhanced solid-phase growth of β-$FeSi_2$ by pre-amorphization, Y. Murakami, I. Tsunoda, H. Kido, A. Kenjo, T. Sadoh, M. Miyao and T. Yoshitake 206 (2003) 304

Formation of β-$FeSi_2$ thin films by partially ionized vapor deposition, N. Harada and H. Takai 206 (2003) 308
Effect of surface treatment of Si substrate on the crystal structure of $FeSi_2$ thin film formed by ion beam sputter deposition method, M. Haraguchi, H. Yamamoto, K. Yamaguchi, T. Nakanoya, T. Saito, M. Sasase and K. Hojou 206 (2003) 313
Characterization and light emission properties of β-$FeSi_2$ precipitates in Si synthesized by metal vapor vacuum arc ion implantation, Y. Gao, S.P. Wong, W.Y. Cheung, G. Shao and K.P. Homewood 206 (2003) 317
Characterization of air-exposed surface of β-$FeSi_2$ fabricated by ion beam sputter deposition method, T. Saito, H. Yamamoto, K. Yamaguchi, T. Nakanoya, K. Hojou, M. Haraguchi, M. Imamura, N. Matsubayashi, T. Tanaka and H. Shimada 206 (2003) 321
Effects of ion irradiation on structural and magnetic properties of Fe/Si multilayers prepared by helicon plasma sputtering, S. Purwanto, I. Sakamoto, M. Koike, H. Tanoue and S. Honda 206 (2003) 326
Hydrogen contents and related properties of a-C:H formed with unbalanced magnetron sputtering, G.C. Xu, Y. Hibino, K. Kurotobi, Y. Suzuki and M. Iwaki 206 (2003) 330
Argon versus nitrogen ion beam assisted deposition of amorphous carbon and carbon–nitrogen films on aluminum for protection against aqueous corrosion, W. Ensinger, O. Lensch, F. Sittner, J. Knecht, K. Volz, T. Matsutani and M. Kiuchi 206 (2003) 334
Determination of sp^3/sp^2 ratio in amorphous-carbon thin film synthesized by reactive filtered arc deposition, W.J. Li, Z.R. Song, Y.H. Yu, S.C. Zou and D. Shen 206 (2003) 339
Comparison of surface morphologies of SiO_2 films prepared by ion-beam induced chemical vapor deposition and ion-beam assisted deposition, T. Matsutani, T. Asanuma, C. Liu, M. Kiuchi and T. Takeuchi 206 (2003) 343
Structural, electrical and optical properties of indium tin oxide films prepared by low-energy oxygen-ion-beam assisted deposition, C. Liu, T. Matsutani, T. Asanuma and M. Kiuchi 206 (2003) 348
Sequential implantation of halogen and copper ions in silica glass, K. Fukumi, A. Chayahara, H. Kageyama, A. Kinomura, Y. Mokuno, N. Kitamura, K. Kadono, Y. Horino and J. Nishii 206 (2003) 353
Microstructure, morphology and their annealing behaviors of alumina films synthesized by ion beam assisted deposition, Q.Y. Zhang, W.J. Zhao, P.S. Wang, L. Wang, J.J. Xu and P.K. Chu 206 (2003) 357
The microstructures of yttria-stabilized zirconia deposited with ion-plating apparatus, G.C. Xu, K. Fujita, T. Torigoe and Y. Hibino 206 (2003) 362
Mechanical properties of zirconium films prepared by ion-beam assisted deposition, A. Mitsuo, T. Mori, Y. Setsuhara, S. Miyake and T. Aizawa 206 (2003) 366
Preparation of high-purity Cu films by non-mass separated ion beam deposition, J.-W. Lim, K. Mimura, K. Miyake, M. Yamashita and M. Isshiki 206 (2003) 371
Ion beam assisted deposition of multi-layer X-ray mirrors for the extreme ultraviolet lithography, T. Chassé, H. Neumann and B. Rauschenbach 206 (2003) 377
The TiN/AlN multilayers deposited by filtered vacuum arc deposition, X. Zhang, X. Wu, Z. Yi, T. Zhang and H. Zhang 206 (2003) 382
Phase composition and crystalline structure of titanium nitride deposited on silicon by an ion-beam assisted deposition technique, K. Yokota, K. Nakamura, T. Kasuya and M. Ohnishi 206 (2003) 386
Formation and characterizations of ultra-shallow p^+–n junctions using $B_{10}H_{14}$ ion implantation, G.Y. Jeon, J.S. Kim, C.N. Whang, S. Im, J.-H. Song, J.H. Song, W.K. Choi and H.K. Kim 206 (2003) 409
Reduction of boride-enhanced diffusion by point defect engineering and its application for shallow junction formation, L. Shao, J. Liu, X. Wang, H. Chen, P.E. Thompson and W.-K. Chu 206 (2003) 413
Multi-layered nanocavities in silicon with sequential helium implantation/anneal, S. Rangan, S. Ashok, G. Chen and D. Theodore 206 (2003) 417
The use of cavities for gettering in silicon microelectronic devices, S.E. Donnelly, V.M. Vishnyakov, G. Carter, J. Terry, L.I. Haworth, P. Sermanni and R.C. Birtcher 206 (2003) 422
The fabrication and properties of silicon-nanocrystal-based devices and structures produced by ion implantation – The search for gain, R.G. Elliman, M.J. Lederer, N. Smith and B. Luther-Davies 206 (2003) 427
n-ZnO/p-Si photodiodes fabricated using ion-beam induced isolation technique, C.H. Park, J.Y. Lee, S. Im and T.G. Kim 206 (2003) 432
Dislocation engineered β-$FeSi_2$ light emitting diodes, M.A. Loureno, R.M. Gwilliam, G. Shao and K.P. Homewood 206 (2003) 436
Fabrication of optical waveguides by 2 MeV Ar^+ irradiation of germanium-doped flame-hydrolysis deposited silica, S. García-Blanco, A.J. Kellock, J.E.E. Baglin, A. Glidle, J.M. Cooper, J.S. Aitchison and R.M. De La Rue 206 (2003) 440
Displacement damage degradation of ion-induced charge in Si pin photodiode, S. Onoda, T. Hirao, J.S. Laird, H. Mori, H. Itoh, T. Wakasa, T. Okamoto and Y. Koizumi 206 (2003) 444

Processing of nano-holes and pores on SiO_2 thin films by MeV heavy ions, C. Milanez Silva, P. Varisco, A. Moehlecke, P.P. Fichtner, R.M. Papaléo and J. Eriksson 206 (2003) 486
Self-organized porous-alumina implantation masks for generating nanoscale arrays, L.E. Rehn, B.J. Kestel, P.M. Baldo, J. Hiller, A.W. McCormick and R.C. Birtcher 206 (2003) 490
Intravascular brachytherapy with radioactive stents produced by ion implantation, M.-A. Golombeck, S. Heise, K. Schloesser, B. Schuessler and H. Schweickert 206 (2003) 495
Ion beam modification of polymers for the application of medical devices, Y. Suzuki 206 (2003) 501
Improvement of polydimethylsiloxane guide tube for nerve regeneration treatment by carbon negative-ion implantation, H. Tsuji, M. Izukawa, R. Ikeguchi, R. Kakinoki, H. Sato, Y. Gotoh and J. Ishikawa 206 (2003) 507
Immobilization of collagen by ion bombardment, Y. Yokoyama, T. Tsukamoto, T. Kobayashi and M. Iwaki 206 (2003) 512
Biocompatibility of titanium based implants treated with plasma immersion ion implantation, S. Mändl, R. Sader, G. Thorwarth, D. Krause, H.-F. Zeilhofer, H.H. Horch and B. Rauschenbach 206 (2003) 517
Effects of ion beam assist on the formation of calcium phosphate film, I.-S. Lee, C.-N. Whang, G.H. Lee, F.-Z. Cui and A. Ito 206 (2003) 522
Formation of a super-thin film and a self-assembly cellular sheet by ion-beam irradiation, T. Yotoriyama, T. Tsukamoto, Y. Suzuki and M. Iwaki 206 (2003) 527
Platelet adhesion and plasma protein adsorption control of collagen surfaces by He^+ ion implantation, K. Kurotobi, Y. Suzuki, H. Nakajima, H. Suzuki and M. Iwaki 206 (2003) 532
Ion implantation into ePTFE for application of a dural substitute, Y. Suzuki, M. Iwaki, S. Tani, G. Oohashi and M. Kamio 206 (2003) 538
Neurite outgrowth on fluorinated polyimide film micropatterned by ion irradiation, Y. Okuyama, M. Sato, S. Nagaoka, H. Kawakami, Y. Suzuki and M. Iwaki 206 (2003) 543
Chromosomal rearrangements in interspecific hybrids between *Nicotiana gossei* Domin and *N. tabacum* L., obtained by crossing with pollen exposed to helium ion beams or gamma-rays, S. Kitamura, M. Inoue, N. Ohmido, K. Fukui and A. Tanaka 206 (2003) 548
Modification of bamboo surface by irradiation of ion beams, M. Wada, S. Nishigaito, R. Flauta and T. Kasuya 206 (2003) 557
Mutation induced with ion beam irradiation in rose, H. Yamaguchi, S. Nagatomi, T. Morishita, K. Degi, A. Tanaka, N. Shikazono and Y. Hase 206 (2003) 561
Dose response and mutation induction by ion beam irradiation in buckwheat, T. Morishita, H. Yamaguchi, K. Degi, N. Shikazono, Y. Hase, A. Tanaka and T. Abe 206 (2003) 565
Wide variety of flower-color and -shape mutants regenerated from leaf cultures irradiated with ion beams, M. Okamura, N. Yasuno, M. Ohtsuka, A. Tanaka, N. Shikazono and Y. Hase 206 (2003) 574
Induction of somatic instability in stable yellow leaf mutant of rice by ion beam irradiation, M. Maekawa, Y. Hase, N. Shikazono and A. Tanaka 206 (2003) 579
Simulation study on nanocluster growth by ion beam synthesis, Y. Enomoto and M. Sawa 206 (2003) 596
Resistivity of nanostructured Fe–Cr films, C. Heck, A. Chayahara, Y. Horino, R. Funahashi, R.M.N. Miranda and M.N. Baibich 206 (2003) 601
Nanoparticles formation in insulators induced by Au^- and Au_2^- ion implantation, V. Bandourko, N. Umeda, T. Suga, C.G. Lee, K. Kono, Y. Takeda and N. Kishimoto 206 (2003) 606
Enhancement of metal-nanoparticle precipitation by co-irradiation of high-energy heavy ions and laser in silica glass, N. Okubo, N. Umeda, Y. Takeda and N. Kishimoto 206 (2003) 610
Study on optical reflection property from multilayer on Si substrate including nanoparticles in SiO_2 layer, H. Tsuji, N. Arai, M. Motono, Y. Gotoh, K. Adachi, H. Kotaki and J. Ishikawa 206 (2003) 615
Nonlinear optical properties of metal nanoparticle composites for optical applications, Y. Takeda and N. Kishimoto 206 (2003) 620
Non-linear optical properties of metal nanoparticles implanted in silicate glass, A.L. Stepanov, R.A. Ganeev, A.I. Ryasnyansky and T. Usmanov 206 (2003) 624
Formation of silver nanoparticles in thin oxide layer on Si by negative-ion implantation, N. Arai, H. Tsuji, M. Motono, Y. Gotoh, K. Adachi, H. Kotaki and J. Ishikawa 206 (2003) 629
Ion-induced metal nanoparticles in insulators for nonlinear optical property, N. Kishimoto, Y. Takeda, N. Umeda, N. Okubo and R.G. Faulkner 206 (2003) 634
Formation of CuCl and AgCl nanoclusters by sequential implantation, K. Takahiro, K. Kawatsura, S. Nagata, S. Yamamoto, H. Naramoto, M. Sasase and Y. Ito 206 (2003) 639
Quantum-dimensional structures produced by ion implantation, N.N. Gerasimenko, Yu.N. Parhomenko, V.Yu. Troitskiy, A.V. Irzhak, M.N. Pavluchenko, K.K. Djamanbalin and A.S. Belogorohov 206 (2003) 644
Nanostructure fabrication of InP by low energy ion beams, Y. Yuba, S. Hazama and K. Gamo 206 (2003) 648

Creation of noble metal nanoclusters in bismuth tellurite, A. Kling, J.C. Soares, P.F.P. Fichtner, L. Amaral, F. Zawislak, I. Földvári and Á. Péter 206 (2003) 653
Metal precipitation process in polymers induced by ion implantation of 60 keV Cu^-, N. Umeda, V.V. Bandourko, V.N. Vasilets and N. Kishimoto 206 (2003) 657
Photoluminescence and reflectance measurements on annealed porous silicon implanted with nitrogen by plasma immersion ion implantation (PIII), A.F. Beloto, M.D. Silva, J.R. Senna, C. Kuranaga, N.F. Leite and M. Ueda 206 (2003) 677
Ion implantation to inner surface of a cylinder, S. Masamune and K. Yukimura 206 (2003) 682
Surface modification of PET film by plasma-based ion implantation, N. Sakudo, D. Mizutani, Y. Ohmura, H. Endo, R. Yoneda, N. Ikenaga and H. Takikawa 206 (2003) 687
Growth and nucleation of diamond-like carbon (DLC) film on aluminum, L.H. Li, X.B. Tian, P.K. Chu, Y.H. Zhang, X.M. Cui and H.Q. Zhang 206 (2003) 691
Uniform coating of thick DLC film on three-dimensional substrates, Y. Nishimura, R. Ohkawa, H. Oka, H. Akamatsu, K. Azuma and M. Yatsuzuka 206 (2003) 696
Properties of thick DLC films prepared by plasma-based ion implantation and deposition using combined RF and H.V. pulses, Y. Oka, M. Tao, Y. Nishimura, K. Azuma, E. Fujiwara and M. Yatsuzuka 206 (2003) 700
Deposition of diamond-like carbon films on inner wall of sub-millimeter diameter steel tube by plasma source ion implantation, K. Baba and R. Hatada 206 (2003) 704
Deposition of diamond-like carbon films by plasma source ion implantation with superposed pulse, K. Baba and R. Hatada 206 (2003) 708
Investigation of diamond-like carbon formed on PET film by plasma-source ion implantation using C_2H_2 and CH_4, M. Yoshida, S. Watanabe, T. Tanaka, T. Takagi, M. Shinohara and J.W. Lee 206 (2003) 712
Properties of diamond like carbon films by plasma based ion implantation and deposition method applying radio frequency wave and negative high voltage pulses through single feedthrough, H. Tojo, Y. Mokuno, A. Chayahara, S. Iura, H. Kasai, N. Toyohara, T. Hidaka, S. Isogawa, M. Hijino and Y. Horino 206 (2003) 717
Haemocompatibility of hydrogenated amorphous carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition, P. Yang, S.C.H. Kwok, P.K. Chu, Y.X. Leng, J.Y. Chen, J. Wang and N. Huang 206 (2003) 721
The influence of DC biasing on the uniformity of a-C:H films for three-dimensional substrates by using a plasma-based ion implantation technique, T. Watanabe, K. Yamamoto, O. Tsuda, A. Tanaka, Y. Koga and O. Takai 206 (2003) 726
Impact of energy density and stress fields on the nucleation dynamics of plasma deposited a-C:H films, A. Golanski, J.P. Stoquert, P. Kern, F. Piazza and S. Schulze 206 (2003) 731
Dependence of optical properties and hardness on carbon content in silicon carbonitride films deposited by plasma ion immersion processing technique, I.V. Afanasyev-Charkin and M. Nastasi 206 (2003) 736
Voltage dependence of cluster size in carbon films using plasma immersion ion implantation, D.R. McKenzie, R.N. Tarrant, M.M.M. Bilek, G. Pearce, N.A. Marks, D.G. McCulloch and S.H.N. Lim 206 (2003) 741
Effects of pressure on the structure of titanium nitride film in the preparation using metallic plasma-based ion implantation and deposition, K. Yukimura, T. Muraho, M. Kumagai, H. Saito, M. Kohata and T. Maruyama 206 (2003) 745
In-line nitrogen PIII/ion nitriding processing of metallic materials, M. Ueda, G.F. Gomes, E. Abramof and H. Reuther 206 (2003) 749
Electrochemical porosity determination of thin protective films on iron base materials, Y.-Y. Lee, C. Heck, A. Chayahara, Y. Horino, W. Ensinger and B. Enders 206 (2003) 754
Aluminum plasma immersion ion implantation in polymers, M. Ueda, I.H. Tan, R.S. Dallaqua, J.O. Rossi, J.J. Barroso and M.H. Tabacniks 206 (2003) 760
Computer simulation of plasma for plasma immersed ion implantation and deposition with bipolar pulses, Y. Miyagawa, M. Ikeyama, S. Miyagawa and H. Nakadate 206 (2003) 767
Sheath formation and ion flux distribution inside the trench in plasma-based ion implantation, T. Ikehata, K. Shioya, T. Araki, N.Y. Sato, H. Mase and K. Yukimura 206 (2003) 772
Measurements of heat flux distribution toward substrate by means of the $LiNbO_3$ interferometer, and electron density in a capacitively coupled rf discharge plasma, S. Mukaigawa, S. Kanno, K. Takaki and T. Fujiwara 206 (2003) 777
Positive pulse bias method in plasma-based ion implantation, T. Ikehata, K. Shimatsu, N.Y. Sato and H. Mase 206 (2003) 782
Defect characteristics by boron cluster ion implantation, T. Aoki, J. Matsuo, G. Takaoka, N. Toyoda and I. Yamada 206 (2003) 855
Titanium-dioxide film formation using gas cluster ion beam assisted deposition technique, O. Nakatsu, J. Matsuo, K. Omoto, T. Seki, G. Takaoka and I. Yamada 206 (2003) 866
Reduction of surface roughness by Ta_2O_5 film formation with O_2 cluster ion assisted deposition, Y. Fujiwara, N. Toyoda, K. Mochiji, T. Mitamura and I. Yamada 206 (2003) 870

Stable optical thin film deposition with O_2 cluster ion beam assisted deposition, N. Toyoda, Y. Fujiwara and I. Yamada 206 (2003) 875
NEXAFS study on substrate temperature dependence of DLC films formed by Ar cluster ion beam assisted deposition, K. Kanda, Y. Shimizugawa, Y. Haruyama, I. Yamada, S. Matsui, T. Kitagawa, H. Tsubakino and T. Gejo 206 (2003) 880
Influence of residual Ar^+ in Ar cluster ion beam for DLC film formation, T. Kitagawa, K. Miyauchi, N. Toyoda, K. Kanda, T. Ikeda, H. Tsubakino, J. Matsuo, S. Matsui and I. Yamada 206 (2003) 884
Application of ion beams for preparation of TiO_2 thin film photocatalysts operatable under visible light irradiation: Ion-assisted deposition and metal ion-implantation, H. Yamashita, M. Harada, J. Misaka, H. Nakao, M. Takeuchi and M. Anpo 206 (2003) 889
Optimization of flux ratio of C_{60} molecule to Ar cluster ion for diamond-like carbon film deposition by NEXAFS measurement, K. Miyauchi, T. Kitagawa, N. Toyoda, S. Matsui, K. Mochiji, T. Mitamura and I. Yamada 206 (2003) 893
Coating of TiO_2 photocatalysts on super-hydrophobic porous teflon membrane by an ion assisted deposition method and their self-cleaning performance, H. Yamashita, H. Nakao, M. Takeuchi, Y. Nakatani and M. Anpo 206 (2003) 898
Ion beam induced epitaxial crystallization of silicon implanted with heavy ions, Ch. Angelov, M. Takai, A. Kinomura, Y. Horino, A. Peeva and W. Skorupa 206 (2003) 907
Creation of internal point defect drains in silicon by carbon implantation, M. Häberlen, J.K.N. Lindner and B. Stritzker 206 (2003) 916
New insight on the interaction and diffusion properties of ion beam injected self-interstitials in crystalline silicon, D. De Salvador, E. Napolitani, S. Mirabella, F. Giannazzo, V. Raineri, G. Bisognin, M. Berti, A. Carnera, A.V. Drigo, A. Terrasi and F. Priolo 206 (2003) 922
Boron-induced redistribution of hydrogen implanted at elevated temperature into crystalline silicon, R.D. Verda, M. Nastasi and R.W. Bower 206 (2003) 927
Characterization of BSi molecular ion implantation, J.H. Liang and S.L. Chiang 206 (2003) 932
Increasing the fracture toughness of silicon by ion implantation, J.G. Swadener and M. Nastasi 206 (2003) 937
Electrical properties of the regrown implantation-induced amorphous layer on $(1\bar{1}00)$- and $(11\bar{2}0)$-oriented 6H-SiC, T. Nakamura, H. Tanabe, T. Hitomi and M. Satoh 206 (2003) 956
Electrical properties of high-dose nitrogen-implanted and rapid thermal annealed 6H–SiC, K. Abe, O. Eryu, O. Kogi and K. Nakashima 206 (2003) 960
ESR characterization of activation of implanted phosphorus ions in silicon carbide, J. Isoya, T. Ohshima, A. Ohi, N. Morishita and H. Itoh 206 (2003) 965
Kinetics of solid phase regrowth of self-ion-implanted amorphous SiC during low temperature furnace annealing, O. Eryu, K. Abe, K. Nakashima and H. Harima 206 (2003) 969
Ion-beam-induced amorphous structures in silicon carbide, I.-T. Bae, M. Ishimaru, Y. Hirotsu, S. Matsumura and K.E. Sickafus 206 (2003) 974
Structure and photoluminescent properties of SiC layers on Si, synthesized by pulsed ion-beam treatment, R.M. Bayazitov, I.B. Khaibullin, R.I. Batalov, R.M. Nurutdinov, L.Kh. Antonova, V.P. Aksenov and G.N. Mikhailova 206 (2003) 984
SiC precipitates formed in Si by simultaneous dual beam implantation of C^+ and Si^+ ions, R. Kögler, F. Eichhorn, A. Mücklich, H. Reuther, V. Heera, W. Skorupa and J.K.N. Lindner 206 (2003) 989
Amorphous structures of silicon carbonitride formed by high-dose nitrogen ion implantation into silicon carbide, M. Ishimaru, M. Naito, Y. Hirotsu and K.E. Sickafus 206 (2003) 994
Formation of SiGe alloys using ion beam mixing followed by ion beam induced epitaxial crystallization, N. Kitahara, T. Echigo, T. Otani and Y. Yamamoto 206 (2003) 999
Effect of proton implantation at variable temperatures and doses on the semi-insulating GaAs, S. Ahmed, B.J. Sealy and R. Gwilliam 206 (2003) 1003
Annealing characteristics of the implant-isolated n-type GaAs layers: Effects of ion species and implant temperature, S. Ahmed, B.J. Sealy and R. Gwilliam 206 (2003) 1008
Maskless Mn implantation in GaAs using focused Mn ion beam, M. Itou, M. Kasai, T. Kimura, J. Yanagisawa, F. Wakaya, Y. Yuba and K. Gamo 206 (2003) 1013
Ionisation stimulated defect annealing in GaAs and InP, W. Wesch, A. Kamarou, E. Wendler, K. Gärtner, P.I. Gaiduk and S. Klaumünzer 206 (2003) 1018
Direct observation of structural relaxation in amorphous compound semiconductors, G. de M. Azevedo, C.J. Glover, K.M. Yu, G.J. Foran and M.C. Ridgway 206 (2003) 1024
Three-step amorphisation process in ion-implanted GaN at 15 K, E. Wendler, A. Kamarou, E. Alves, K. Gärtner and W. Wesch 206 (2003) 1028

Effects of implantation conditions on the luminescence properties of Eu-doped GaN, Y. Nakanishi, A. Wakahara, H. Okada, A. Yoshida, T. Ohshima, H. Itoh, S. Nakao, K. Saito and Y.T. Kim 206 (2003) 1033
Structural properties of ion beam mixed tungsten/steel layers, A. Piatkowska, J. Jagielski, M. Kopcewicz, W. Matz, A. Zalar and M. Mozetic 206 (2003) 1052
Uptake of light elements of nanoporous layers formed by helium ion implantation, P.B. Johnson, V.J. Kennedy, A. Markwitz, C.R. Varoy, N. Dytlewski and K.T. Short 206 (2003) 1056
Using ion implantation to study localized corrosion of Al, C.M. Johnson, F.D. Wall and J.C. Barbour 206 (2003) 1062
TMR effects of sputtered Fe–Al–O granular films after irradiation by high energy ions, N. Hayashi, T. Moriwaki, I. Sakamoto, T. Toriyama and H. Wakabayashi 206 (2003) 1066
Formation of buried oxide layers in titanium by high-fluence oxygen ion implantation, C. Hammerl, Y. Bohne, W. Assmann, K. Helming and B. Rauschenbach 206 (2003) 1072
Improvement of the adhesion of cubic boron nitride films by adding miscellaneous elements, S. Kurooka, T. Ikeda and A. Tanaka 206 (2003) 1088
Friction properties of ion implanted Al_2O_3 ceramic, J. Jagielski, A. Piatkowska, Z. Librant, P. Aubert, C. Legrand-Buscema and S. Coindeau 206 (2003) 1097
Ion-induced frequency shift of ~1100 cm^{-1} IR vibration in implanted SiO_2: Compaction versus bond-breaking, H. Amekura, N. Umeda, N. Okubo and N. Kishimoto 206 (2003) 1101
Wear properties of tungsten-implanted polyimide, T. Kobayashi, A. Nakao and M. Iwaki 206 (2003) 1110
An influence of the viscosity of polymer substrate on ion beam synthesis of iron granular films, R.I. Khaibullin, B.Z. Rameev, V.N. Popok, E.P. Zheglov, A.V. Kondyurin, V.A. Zhikharev and B. Aktas 206 (2003) 1115
Reactive ion etching of glasses: Composition dependence, E. Metwalli and C.G. Pantano 207 (2003) 21
Microstructure and magnetic properties of Co nanoparticles in ion-implanted Al_2O_3, A. Meldrum, L.A. Boatner and K. Sorge 207 (2003) 36
Feasibility study of self-lubrication by chlorine implantation, T. Akhajdenung, T. Aizawa, M. Yoshitake and A. Mitsuo 207 (2003) 45
Structural and optical studies of Co and Ti implanted sapphire, E. Alves, C. Marques, R.C. da Silva, T. Monteiro, J. Soares, C. McHargue, L.C. Ononye and L.F. Allard 207 (2003) 55
Nanohillock formation by impact of small low-energy clusters with surfaces, V.N. Popok, S.V. Prasalovich and E.E.B. Campbell 207 (2003) 145
Low current MeV Au^{2+} ion-induced amorphization in silicon: Rutherford backscattering spectrometry and transmission electron microscopy study, J. Kamila, B. Satpati, D.K. Goswami, M. Rundhe, B.N. Dev and P.V. Satyam 207 (2003) 291
50 MeV Li^{3+} ion irradiation induced modifications in dielectric properties of Al^{3+} substituted Mg–Mn ferrite, A. Dogra, M. Singh and R. Kumar 207 (2003) 296
Formation of $MoSi_2$ and associated fractal growth on Si surface upon high current pulsed Mo-ion implantation, X.Q. Cheng, R.S. Wang, X.J. Tang and B.X. Liu 207 (2003) 301
Electrical and optical isolation of GaN by high energy ion irradiation, M. Senthil Kumar, G. Sonia, D. Kanjilal, R. Dhanasekaran and J. Kumar 207 (2003) 308
Resonant nuclear reaction analysis study of carbon phase formation during carbon ion-implantation into silver substrates, T. Cabioc'h, E. Thune, M. Jaouen and F. Bodart 207 (2003) 409
Dynamic Monte Carlo simulation for reactive sputtering of aluminium, Z.Y. Chen, A. Bogaerts, D. Depla and V. Ignatova 207 (2003) 415
Swift ion effects in polymers: industrial applications, P. Apel 208 (2003) 11
Plasma surface modification of polymers for biomedical use, C. Oehr 208 (2003) 40
Ion track membranes providing heat pipe surfaces with capillary structures, G.N. Akapiev, S.N. Dmitriev, B. Erler, V.V. Shirkova, A. Schulz and H. Pietsch 208 (2003) 133
Surface modification of nanoparticles for radiation curable acrylate clear coatings, F. Bauer, H.-J. Gläsel, E. Hartmann, E. Bilz and R. Mehnert 208 (2003) 267
Irradiations of implanted cobalt nanoparticles in silica layers, C. D'Orléans, C. Cerruti, C. Estournès, J.J. Grob, J.L. Guille, F. Haas, D. Muller, M. Richard-Plouet and J.P. Stoquert 209 (2003) 316
Fabrication of micro-optical components in polymer using proton beam micro-machining and modification, A.A. Bettiol, T.C. Sum, J.A. van Kan and F. Watt 210 (2003) 250
Proton beam micromachining dose normalization for SU-8 using ionoluminescence detection, C.N.B. Udalagama, A.A. Bettiol, J.A. van Kan and F. Watt 210 (2003) 256
Proton beam micromachining on PMMA, Foturan and CR-39 materials, I. Rajta, I. Gómez-Morilla, M.H. Abraham and Á.Z. Kiss 210 (2003) 260

Proton beam writing of passive waveguides in PMMA, T.C. Sum, A.A. Bettiol, H.L. Seng, I. Rajta, J.A. van Kan and F. Watt 210 (2003) 266
Characterization of refractive index changes of silica glass induced by ion microbeam, M. Hattori, Y. Ohki, M. Fujimaki, T. Souno, H. Nishikawa, E. Watanabe, M. Oikawa, T. Kamiya and K. Arakawa 210 (2003) 272
Simultaneous irradiation of laser and ion beams on optical materials, F. Sato, T. Tanaka, T. Kagawa and T. Iida 210 (2003) 281

Effects of Radiation

Radiation hardness of Ce^{3+}-doped heavy germanate glasses, S. Wang, G. Chen, S. Baccaro, A. Cecilia, Y. Du, J. Nie and Y. Zhang 201 (2003) 475
Tooth enamel dosimetric response to 2.8 MeV neutrons, P. Fattibene, M. Angelone, M. Pillon and V. De Coste 201 (2003) 480
The influence of initial impurities and irradiation conditions on defect production and annealing in silicon for particle detectors, I. Lazanu and S. Lazanu 201 (2003) 491
Thermoluminescence properties of newly generated glow peak 3a in TLD-100 after pre-irradiation heat treatment at 150 °C, A.N. Yazici and Z. Öztürk 201 (2003) 503
Radiation defect distribution in silicon irradiated with 600 keV electrons, P. Hazdra and H. Dorschner 201 (2003) 513
Electron irradiation effects on partially fluorinated polymer films: Structure–property relationships, M.M. Nasef and K.Z.M. Dahlan 201 (2003) 604
Sinks strengths revisited, N.V. Doan, J.L. Bocquet and G. Martin 202 (2003) 8
Non-thermodynamic approach to including bombardment-induced post-cascade redistribution of point defects in dynamic Monte Carlo code, V.A. Ignatova, I.R. Chakarov and I.V. Katardjiev 202 (2003) 24
Atomic-scale modelling of primary damage and properties of radiation defects in metals, Yu.N. Osetsky and D.J. Bacon 202 (2003) 31
Ab initio contribution to the study of complexes formed during dilute FeCu alloys radiation, C.S. Becquart and C. Domain 202 (2003) 44
Stacking fault tetrahedra formation in the neighbourhood of grain boundaries, M. Samaras, P.M. Derlet, H. Van Swygenhoven and M. Victoria 202 (2003) 51
Metals far from equilibrium: From shocks to radiation damage, E.M. Bringa, B.D. Wirth, M.J. Caturla, J. Stölken and D. Kalantar 202 (2003) 56
Plastic deformation of copper single crystals by simulation using X-ray Lang method and molecular dynamics, M. Doyama, Y. Kogure, T. Nozaki and Y. Kato 202 (2003) 64
Copper precipitation in iron: a comparison between metropolis Monte Carlo and lattice kinetic Monte Carlo methods, O. Khrushcheva, E.E. Zhurkin, L. Malerba, C.S. Becquart, C. Domain and M. Hou 202 (2003) 68
Thermal stability of helium–vacancy clusters in iron, K. Morishita, R. Sugano, B.D. Wirth and T. Díaz de la Rubia 202 (2003) 76
Modeling of aging in plutonium by molecular dynamics, P. Pochet 202 (2003) 82
Threats to ICF reactor materials: computational simulations of radiation damage induced topological changes in fused silica, A. Kubota, M.-J. Caturla, J. Stolken, B. Sadigh, S. Reyes, T. Díaz de la Rubia and J.F. Latkowski 202 (2003) 88
Molecular dynamics study of defect formation in GaN cascades, J. Nord, K. Nordlund, J. Keinonen and K. Albe 202 (2003) 93
Modeling SiC swelling under irradiation: Influence of amorphization, A. Romano, M. Bertolus, M. Defranceschi and S. Yip 202 (2003) 100
Formation and stability of radiation defect complexes in Si and Si:Ge: Composition and pressure effects, M. Ganchenkova, A. Nazarov and A. Kuznetsov 202 (2003) 107
Defect characterization of low-energy recoil events in silicon using classical molecular dynamics simulation, G. Otto, G. Hobler and K. Gärtner 202 (2003) 114
A first principles study of native defects in α-quartz, G. Roma and Y. Limoge 202 (2003) 120
Damage production in low-energy Au and Si irradiation of a-Si: Influence of projectile mass, M. Koster and H.M. Urbassek 202 (2003) 125
Statistical 3D damage accumulation model for ion implant simulators, J.M. Hernández-Mangas, J. Lázaro, L. Enriquez, L. Bailón, J. Barbolla and M. Jaraíz 202 (2003) 138
Comparison of boron halide, decaborane and B implants in Si from Molecular Dynamics simulations, R.P. Webb, S.H. Winston, R.M. Gwilliam, B.J. Sealy, G. Boudreault, C. Jeynes and K.J. Kirkby 202 (2003) 143
Photochemical ablation of organic solids, Y.G. Yingling and B.J. Garrison 202 (2003) 188
Comparison of protons, carbon and fullerene impacts on a carbon cylinder, R.P. Webb and I.H. Wilson 202 (2003) 217

Simulation of grain growth in nanocrystalline nickel induced by ion irradiation, W. Voegeli, K. Albe and H. Hahn 202 (2003) 230
Simulation of the non-equilibrium processes for tetrahedral amorphous carbon: Deposition and structural relaxation, A.Yu. Belov and H.U. Jäger 202 (2003) 242
AFM search for slow MCI-produced nanodefects on atomically clean monocrystalline insulator surfaces, I.C. Gebeshuber, S. Cernusca, F. Aumayr and HP. Winter 205 (2003) 751
Visualization of vacancy type defects in the $R_p/2$ region of ion implanted and annealed silicon, A. Peeva, R. Koegler and W. Skorupa 206 (2003) 71
Comparison among the formation processes of extended defects in Si under irradiation with low-energy H^+, He^+ ions and high-energy electrons, K. Arakawa, K. Saitoh, H. Mori and K. Ono 206 (2003) 76
Divacancies in proton irradiated silicon: Comparison of annealing mechanisms studied with infrared spectroscopy and positron annihilation, R. Poirier, V. Avalos, S. Dannefaer, F. Schiettekatte and S. Roorda 206 (2003) 85
Creation and annealing of defect structures in silicon-based semiconductors during and after implantations at 77–500 K, G. Weyer, H.P. Gunnlaugsson, M. Dietrich, M. Fanciulli, K. Bharuth-Ram, R. Sielemann and the ISOLDE Collaboration 206 (2003) 90
Influence of the implantation angle on the generation of defects for Er implanted GaN, B. Pipeleers, S.M. Hogg and A. Vantomme 206 (2003) 95
Application of time-domain vibrational spectroscopy to the study of defects in ion-implanted materials, M. Kitajima, M. Hase, K. Ishioka and K. Ushida 206 (2003) 99
Ion-beam induced defect formation in α-alumina with applied electric field, T. Higuchi, K. Yasuda, K. Tanaka, K. Shiiyama and C. Kinoshita 206 (2003) 103
Intermittent rapid motion of helium bubbles in Cu during irradiation with high energy self-ions, K. Ono, K. Arakawa and R.C. Birtcher 206 (2003) 114
Martensitic transformation and the stress induced by 3 MeV ion implantation in an austenite stainless steel sheet, Q. Wang, H. Ogiso, S. Nakano, J. Akedo and H. Ishikawa 206 (2003) 118
Molecular dynamics simulation of vacancy diffusion in tungsten induced by irradiation, Q. Xu, T. Yoshiie and H.C. Huang 206 (2003) 123
Physical origin of ion mixing induced amorphization and associated asymmetric growth in the binary metal systems, L. Hu, Z.F. Li, W.S. Lai and B.X. Liu 206 (2003) 127
Kinetics of the crystalline to crystalline phase transformation induced in pure zirconia by swift heavy ion irradiation, A. Benyagoub 206 (2003) 132
Superplastic deformation characteristics of 3Y-TZP after Zr ion irradiation, T. Shibata, M. Ishihara, Y. Motohashi, S. Baba, T. Hoshiya, T. Kobayashi, S. Harjo and T. Sakuma 206 (2003) 139
Radiation damage effects in superplastic 3Y-TZP irradiated with Zr ions, Y. Motohashi, T. Kobayashi, S. Harjo, T. Sakuma, T. Shibata, M. Ishihara, S. Baba and T. Hoshiya 206 (2003) 144
Radiation-damage recovery in undoped and oxidized Li doped MgO crystals implanted with lithium ions, E. Alves, R.C. da Silva, J.V. Pinto, T. Monteiro, B. Savoini, D. Cáceres, R. González and Y. Chen 206 (2003) 148
An effect of annealing on In implanted ZnO, I. Sakaguchi, D. Park, Y. Takata, S. Hishita, N. Ohashi, H. Haneda and T. Mitsuhashi 206 (2003) 153
Abnormal distribution of defects introduced into MgO single crystals by MeV ion implantation, H. Ogiso, S. Nakano and J. Akedo 206 (2003) 157
Accumulation of ion beam induced disorder in strontium titanate, S. Thevuthasan, W. Jiang, V. Shutthanandan and W.J. Weber 206 (2003) 162
Disordering in Li_2TiO_3 irradiated with high energy ions, T. Nakazawa, V. Grismanovs, D. Yamaki, Y. Katano and T. Aruga 206 (2003) 166
Recrystallization of ion-beam amorphized BSCC thin films, S. Hishita, H. Haneda, S.S. Kim and J.H. Moon . 206 (2003) 171
Structure of amorphized C_{60} films studied by Raman spectroscopy and X-ray photoelectron spectroscopy, R. Ookawa, K. Takahiro, K. Kawatsura, F. Nishiyama, S. Yamamoto and H. Naramoto 206 (2003) 175
Modification of highly oriented pyrolytic graphite (HOPG) surfaces with highly charged ion (HCI) irradiation, Y. Koguchi, T. Meguro, A. Hida, H. Takai, K. Maeda, Y. Yamamoto and Y. Aoyagi 206 (2003) 202
Effects of ion implantation on various properties of amorphous carbon nitride (a-C:N) thin films, H. Kakiuchi and T. Terai 206 (2003) 237
Electron and γ-irradiation of ion implanted MOS structures with different oxide thickness, S. Kaschieva, S.N. Dmitriev and Ch. Angelov 206 (2003) 452
Study of single-event current pulses induced in SOI diodes by collimated swift heavy-ions micro-beams, T. Hirao, H. Mori, J.S. Laird, S. Onoda, H. Abe, T. Wakasa and H. Itoh 206 (2003) 457
Etching characteristics of SiO_2 irradiated with focused ion beam, T. Sadoh, H. Eguchi, A. Kenjo and M. Miyao 206 (2003) 478

Detection of DNA damage induced by heavy ion irradiation in the individual cells with comet assay, S. Wada, M. Natsuhori, N. Ito, T. Funayama and Y. Kobayashi 206 (2003) 553
Irradiation effect of different heavy ions and track section on the silkworm *Bombyx mori*, Z.-L. Tu, Y. Kobayashi, K. Kiguchi and H. Watanabe 206 (2003) 591
Shrinkage mechanism of nanocavities in amorphous Si under ion irradiation: An in situ study, M.-O. Ruault, M.C. Ridgway, F. Fortuna, H. Bernas and J.S. Williams 206 (2003) 912
Radiation effects in diamond induced by negative gold ions, T. Suga, Y. Takeda, K. Kono, N. Kishimoto, V.V. Bandourko and C.G. Lee 206 (2003) 947
Observation of transient current induced in silicon carbide diodes by ion irradiation, T. Ohshima, K.K. Lee, S. Onoda, T. Kamiya, M. Oikawa, J.S. Laird, T. Hirao and H. Itoh 206 (2003) 979
Ion-beam-irradiation induced defects in gallium nitride, W. Jiang, W.J. Weber and C.M. Wang 206 (2003) 1037
Radioluminescence of alumina during proton and heavy ion irradiation, O.A. Plaksin, V.A. Stepanov, P.V. Demenkov, P.A. Stepanov, V.A. Skuratov and N. Kishimoto 206 (2003) 1083
Effects of high energy (MeV) ion beam irradiation on polyethylene terephthalate, N. Singh, A. Sharma and D.K. Avasthi 206 (2003) 1120
Chemical effects of heavy ion beams on organic materials, H. Koizumi, T. Ichikawa, M. Taguchi, Y. Kobayashi and H. Namba 206 (2003) 1124
Size effects in the irradiation-induced crystalline-to-amorphous transformation, A. Meldrum, L.A. Boatner and R.C. Ewing 207 (2003) 28
Laser damage probability studies of fused silica modified by MeV ion implantation, T.E. Felter, L. Hrubesh, A. Kubota, L. Davila and M. Caturla 207 (2003) 72
Effect of ion irradiation in cadmium niobate pyrochlores, W. Jiang, W.J. Weber, S. Thevuthasan and L.A. Boatner 207 (2003) 85
Studies of SSNTDs made from LR-115 in view of their applicability in radiobiological experiments with alpha particles, B. Dörschel, D. Hermsdorf, S. Pieck, S. Starke, H. Thiele and F. Weickert 207 (2003) 154
Covalent bonding of collagen on poly(L-lactic acid) by gamma irradiation, Y. Yang, M.-C. Porté, P. Marmey, A.J. El Haj, J. Amédée and C. Baquey 207 (2003) 165
The impact of low energy proton damage on the operational characteristics of EPIC-MOS CCDs, R.M. Ambrosi, D.R. Smith, A.F. Abbey, I.B. Hutchinson, E. Kendziorra, A. Short, A. Holland, M.J.L. Turner and A. Wells 207 (2003) 175
Nuclear track-formation models and the response of BP-1 detectors, B.A. Weaver and A.J. Westphal 207 (2003) 314
Fission-fragment registration and etching properties of diallyl phthalate with reference to its use as an external detector in fission-track dating, T. Yoshioka, T. Tsuruta, H. Iwano, T. Danhara and Y. Koguchi 207 (2003) 323
Low energy heavy ion detection with the plastic scintillator NE102E, M.N. Akhtar, B. Ahmad and S. Ahmad 207 (2003) 333
Mechanisms of void formation in Ge implanted SiO_2 films, E.S. Marstein, A.E. Gunns, U. Serincan, S. Jørgensen, A. Olsen, R. Turan and T.G. Finstad 207 (2003) 424
Irradiation of organic and polymer films with low-energy electrons, L. Sanche 208 (2003) 4
Vacuum ultraviolet photochemistry of polymers, V. Skurat 208 (2003) 27
VUV and IR spectroellipsometric studies of polymer surfaces, J.A. Woollam, C. Bungay, J. Hilfiker and T. Tiwald 208 (2003) 35
Space environment effects on polymers in low earth orbit, E. Grossman and I. Gouzman 208 (2003) 48
Applications for radiation processing of materials, M.R. Cleland, L.A. Parks and S. Cheng 208 (2003) 66
Radiochemical sterilization and its use for sutures, S.W. Shalaby, Y. Doyle, B.L. Anneaux, K.A. Carpenter and F.R. Schiretz 208 (2003) 110
Track-etch templates designed for micro- and nanofabrication, E. Ferain and R. Legras 208 (2003) 115
Irradiation effects in polymers by heavy ions: The distribution of the chemical structure transformation in polymers, Y. Hama, T. Oka, H. Kudoh, M. Sugimoto and T. Seguchi 208 (2003) 123
Observation of heavy-ion tracks in polyimide by means of high-resolution scanning electron microscopy, S. Abu Saleh and Y. Eyal 208 (2003) 137
Etching rate and structural modification of polymer films during low energy ion irradiation, V. Zaporojtchenko, J. Zekonyte, J. Erichsen and F. Faupel 208 (2003) 155
Crosslinking of polymers in heavy ion tracks, H. Koizumi, M. Taguchi, Y. Kobayashi and T. Ichikawa 208 (2003) 161
A method to determine the opening process for pores of latent ion tracks in polymer using electrolytic etching, V.R. Oganessian, V.V. Trofimov, J. Vetter, M. Danziger, B. Dörschel and D. Hermsdorf 208 (2003) 166
Models of the hydrogen release from polymers under ion beam irradiation, J. Davenas and P. Thévenard ... 208 (2003) 170
Changes in the chemical structure and the mechanical properties of single-site polyethylene induced by ion-beam irradiation, T. Oka, H. Kanbe, F. Yatagai and Y. Hama 208 (2003) 181
Radiation induced processes in the co-polymer, polyethylene–poly(vinyl alcohol), B.H. Milosavljevic and J.K. Thomas 208 (2003) 185

Interaction between reinforce carbon black and polymeric matrix for industrial applications, S. Baccaro, F. Cataldo, A. Cecilia, A. Cemmi, F. Padella and A. Santini 208 (2003) 191
γ irradiation of poly(vinyl chloride) for medical applications, S. Baccaro, V. Brunella, A. Cecilia and L. Costa 208 (2003) 195
NMR measurements of residual dipolar couplings for lifetime assessments in γ-irradiated silica-PDMS composite materials, R.S. Maxwell and B. Balazs 208 (2003) 199
Measurements of free radicals over a period of 4.5 years in gamma-irradiated ultra-high molecular weight polyethylene, N. Naheed, M.S. Jahan and M. Ridley 208 (2003) 204
Measuring the porosity of thin films by the electron stimulated desorption of metastable species, E. Vichnevetski, A.D. Bass and L. Sanche 208 (2003) 210
The effect of radiosterilization on cytotoxicity of polyurethane film, N. Sheikh 208 (2003) 215
Radiation processing of elastomer materials for medical uses, E. Grosu, M. Râpă, A. Tomescu, E. Nemeş, T. Zaharescu, S. Jipa, R. Setnescu and C. Vasile 208 (2003) 220
Cross sections for low energy (1–12 eV) inelastic electron scattering from condensed thymine, P.L. Levesque, M. Michaud and L. Sanche 208 (2003) 225
Surface modification of polytetrafluoroethylene by synchrotron radiation, Y. Sato, D. Yamaguchi, T. Katoh, S. Ikeda, Y. Aoki, A. Oshima, Y. Tabata and M. Washio 208 (2003) 231
Study of natural ageing of polypropylene by X-ray photoelectron spectroscopy, S. Massey, D. Roy and A. Adnot 208 (2003) 236
Enhancement and control of cross-linking of dimethylaminoethyl methacrylate irradiated at low dose rate in the presence of ethylene glycol dimethacrylate, C. Uzun, M. Hassnisaber, M. Şen and O. Güven 208 (2003) 242
EB processing of braided carbon fibre composite profiles, B. Zsigmond, L. Halász and T. Czvikovszky 208 (2003) 247
Characterization study of gamma-irradiated, high melt-strength polypropylene, A.B. Lugão, E.C.L. Cardoso, L.F.C.P. Lima, B. Hustzler and S. Tokumoto 208 (2003) 252
Radiation vulcanization of natural rubber latex using 250 keV electron beam machine, H. Chirinos, F. Yoshii, K. Makuuchi and A. Lugao 208 (2003) 256
Direct initiation of the photopolymerization of acrylates by short-wavelength excimer UV radiation, T. Scherzer, W. Knolle, S. Naumov and R. Mehnert 208 (2003) 271
Surface modification of ethylene-co-tetrafluoroethylene copolymer (ETFE) by plasma, N. Inagaki 208 (2003) 277
Plasma treatment of polymers for surface and adhesion improvement, D. Hegemann, H. Brunner and C. Oehr 208 (2003) 281
Surface free energy and cell attachment onto ion-beam irradiated polymer surfaces, C. Satriano, S. Carnazza, S. Guglielmino and G. Marletta 208 (2003) 287
VUV-induced nitriding of polymer surfaces: Comparison with plasma treatments in nitrogen, F. Truica-Marasescu, S. Guimond and M.R. Wertheimer 208 (2003) 294
Modified polymeric materials for durability in the atomic oxygen space environment, R.L. Kiefer, R.A. Anderson, M.-H.Y. Kim and S.A. Thibeault 208 (2003) 300
Radiation-cured polymeric nanocomposites of enhanced surface-mechanical properties, H.-J. Gläsel, F. Bauer, E. Hartmann, R. Mehnert, H. Möbus and V. Ptatschek 208 (2003) 303
Influence of sample composition and processing parameters on the UV cure of clear coatings, C.S.B. Ruiz, L.D.B. Machado, J.E. Volponi and E.S. Pino 208 (2003) 309
Excimer laser decomposition of silicone, L.D. Laude, C. Cochrane, Cl. Dicara, C. Dupas-Bruzek and K. Kolev 208 (2003) 314
Hydrogels of polysaccharide derivatives crosslinked with irradiation at paste-like condition, F. Yoshii, L. Zhao, R.A. Wach, N. Nagasawa, H. Mitomo and T. Kume 208 (2003) 320
Nano-, micro- and macroscopic hydrogels synthesized by radiation technique, J.M. Rosiak, I. Janik, S. Kadlubowski, M. Kozicki, P. Kujawa, P. Stasica and P. Ulanski 208 (2003) 325
Characterization methods for radiation crosslinked poly(vinyl methyl ether) hydrogels, T. Schmidt, C. Querner and K.-F. Arndt 208 (2003) 331
Chemical bond scission induced by $^{1}H^{+}$, $^{16}O^{8+}$, and γ-rays in a cellulose nitrate detector (O-082), R. Barillon and T. Yamauchi 208 (2003) 336
Determination of non-volatile radiolytic compounds in ethylene co-vinyl alcohol, A. Kothapalli and G. Sadler 208 (2003) 340
Very low temperature irradiation of aliphatic polymers: Role of radical migration on the creation of stable groups (O-127), M. Mélot, Y. Ngono-Ravache and E. Balanzat 208 (2003) 345
Real time in situ spectroscopic characterization of radiation induced cationic polymerization of glycidyl ethers, M. Mascioni, J.M. Sands and G.R. Palmese 208 (2003) 353
The effect of different stabilizers on the thermostability of electron beam crosslinked polyethylene in hot water, S. Hassanpour and F. Khoylou 208 (2003) 358
Sensitization of the radiation-induced chain oxidation of aromatic amines in polymer films (038), O.V. Kolninov, V.V. Kolesnikova, A.P. Podsobljaev and I.P. Shelukhov 208 (2003) 364

Modification of biodegradable polymers by radiation crosslinking technique with polyfunctional monomers, F. Yoshii, M. Suhartini, N. Nagasawa, H. Mitomo and T. Kume 208 (2003) 370
Radiation crosslinking and scission parameters for poly(vinyl methyl ether) in aqueous solution, I. Janik, E. Kasprzak, A. Al-Zier and J.M. Rosiak 208 (2003) 374
Radiation-induced phenomena in ethylene-co-tetrafluoroethylene polymer Temperature and LET effects, A. Oshima and M. Washio 208 (2003) 380
Distonic dimer radical cation of 2,3-dihydrofuran: Quantum chemical calculations and low-temperature EPR results, S. Naumov, I. Janovský, W. Knolle and R. Mehnert 208 (2003) 385
ESR investigations on irradiated polystyrene, M. Chipara, R. Benson, M.D. Chipara and J.R. Reyes 208 (2003) 390
In vivo biocompatibility studies of poly(*n*-vinyl 2-pyrrolidone/itaconic acid) hydrogels synthesized by γ-rays, S. Özdemir, E. Özdemir, R. Tunca, R. Hazroğlu, M. Şen, Ö. Kantoğlu and O. Güven 208 (2003) 395
Polarographic determination of uranyl adsorption onto poly(acrylamide-g-ethylenediaminetetraacetic acid) hydrogels in the presence of cadmium and lead, R. İnam, T. Çaykara and Ö. Kantoğlu 208 (2003) 400
Radiation-induced polymerization monitored in situ by time-resolved fluorescence of probe molecules in methyl methacrylate, M.S. Frahn, R.D. Abellon, L.H. Luthjens, M.J.W. Vermeulen and J.M. Warman 208 (2003) 405
Radiation grafting of different monomers onto PP foils irradiated with a 25 MeV proton beam, R. Mazzei, D. Tadey, E. Smolko and C. Rocco 208 (2003) 411
Oriented immobilization of proteins on grafted porous polymers, M.L. Carbajal, E.E. Smolko and M. Grasselli 208 (2003) 416
Study on poly-electrolyte membrane of crosslinked PTFE by radiation-grafting, K. Sato, S. Ikeda, M. Iida, A. Oshima, Y. Tabata and M. Washio 208 (2003) 424
PVDF multifilament yarns grafted with polystyrene induced by γ-irradition: Influence of the grafting parameters on the mechanical properties, P. Marmey, M.C. Porté and Ch. Baquey 208 (2003) 429
Functionalisation of PAA radiation grafted PVDF, N. Betz, J. Begue, M. Goncalves, K. Gionnet, G. Déléris and A. Le Moël 208 (2003) 434
Hot electron and partial-discharge induced ageing of polymers, C. Laurent and G. Teyssedre 208 (2003) 442
Dose rate effects in radiation degradation of polymer-based cable materials, V. Plaček, B. Bartoníček, V. Hnát and B. Otáhal 208 (2003) 448
Measurement of charge storage and leakage in polyimides, A.R. Frederickson, C.E. Benson and J.F. Bockman 208 (2003) 454
Influence of the molecular modifications on the properties of EPDM elastomers under irradiation, J. Davenas, I. Stevenson, N. Celette, G. Vigier and L. David 208 (2003) 461
Radiation depolymerization of chitosan to prepare oligomers, L. Hai, T. Bang Diep, N. Nagasawa, F. Yoshii and T. Kume 208 (2003) 466
The damaging process in irradiated light guides and scintillating fibers, T. Zoufal, K. Wick and B. Bodmann . 208 (2003) 471
Effects of ageing of electrical insulators after exposure for 11 years in the large electron–positron collider at CERN, M. Tavlet 208 (2003) 476
Effect of gamma irradiation conditions on the radiation-induced degradation of isobutylene–isoprene rubber, M. Şen, C. Uzun, Ö. Kantoğlu, S.M. Erdoğan, V. Deniz and O. Güven 208 (2003) 480
Effects of the high doses of irradiation on the mechanical properties of PS/PP blends, C. Albano, J. Reyes, M.N. Ichazo, J. González and M. Rodríguez 208 (2003) 485
Oxidative degradation of CR-39 track detector in the surface region during gamma-irradiation, T. Yamauchi, Y. Somaki, H. Nakai, K. Oda, T. Ikeda, H. Honda and S. Tagawa 208 (2003) 489
LET effects of neutron irradiated plastic scintillators, B. Bodmann, S. Göb and U. Holm 208 (2003) 495
Immediate and long-term effects of electron beam irradiation on nitrile-butadiene rubber, G. Lopitaux, X. Coqueret, F. Boursereau and G. Larnac 208 (2003) 500
Structural changes induced by swift heavy ions in non-metallic compounds, P.M. Ossi 209 (2003) 55
Sub-threshold plasmon excitation in free-electron metals by helium ions, P. Barone, A. Sindona, R.A. Baragiola, A. Bonanno, A. Oliva and P. Riccardi 209 (2003) 68
Electronic excitations and heavy-ion-induced processes in ionic crystals, K. Schwartz, C. Trautmann and R. Neumann 209 (2003) 73
Track formation in amorphous $Fe_{0.55}Zr_{0.45}$ alloys irradiated by MeV C_{60} ions: Influence of intrinsic stress on induced surface deformations, J.C. Girard, A. Michel, C. Tromas, C. Jaouen and S. Della-Negra 209 (2003) 85
Hardening and long-range stress formation in lithium fluoride induced by energetic ions, I. Manika, J. Maniks, K. Schwartz, M. Toulemonde and C. Trautmann 209 (2003) 93
Nanoprecipitate nucleation caused by swift heavy ions in supersaturated solid solutions, A.E. Volkov and D.N. Korolev 209 (2003) 98
Chemical modifications induced in bisphenol: A polycarbonate by swift heavy ions, F. Dehaye, E. Balanzat, E. Ferain and R. Legras 209 (2003) 103

Cores and halos of uranium-ion tracks in LiF, S. Abu Saleh and Y. Eyal 209 (2003) 113
Ion-track simulation in plastics, M. Balcázar and L. Tavera 209 (2003) 118
Viscous flow of amorphous metals in swift heavy ion tracks, V.A. Borodin, A.E. Volkov and D.N. Korolev .. 209 (2003) 122
Surface crystallinity and radiation-amorphization of InP – An X-ray grazing incidence study, N. Darowski, I. Zizak, G. Schumacher, S. Klaumünzer and E. Wendler 209 (2003) 131
Indium clustering in a silicon matrix in the presence of carbon co-implantation, S. Gennaro, E. Collart, Y. Wang, B.J. Sealy and R.M. Gwilliam 209 (2003) 136
STM study of ion tracks created in GaAs by GeV Xe ion irradiation, A. Hida, A. Iwase, Y. Mera, T. Kambara and K. Maeda 209 (2003) 140
Role of scission and cross-linking in latent track formation in polymers, V. Hnatowicz 209 (2003) 145
Heavy ion-induced deformation of radiation-amorphized U_3Si, M.D. Hou and S. Klaumünzer 209 (2003) 149
Behavior of hydrogen implanted into Si-implanted SiO_2, M. Ikeda, R. Mitsusue, M. Nakagawa, S. Kondo, M. Imai and N. Imanishi 209 (2003) 154
Defect production and radiation annealing in platinum irradiated with high-energy heavy ions, Y. Chimi, A. Iwase and T. Iwata 209 (2003) 159
Study of swift heavy ion tracks on crystalline quartz surfaces, N. Khalfaoui, C.C. Rotaru, S. Bouffard, E. Jacquet, H. Lebius and M. Toulemonde 209 (2003) 165
Nanoscale transformation of sp^2 to sp^3 of graphite by slow highly charged ion irradiation, T. Meguro, A. Hida, Y. Koguchi, S. Miyamoto, Y. Yamamoto, H. Takai, K. Maeda and Y. Aoyagi 209 (2003) 170
SFM study of ion-induced hillocks on LiF exposed to thermal and optical annealing, C. Müller, A. Benyagoub, M. Lang, R. Neumann, K. Schwartz, M. Toulemonde and C. Trautmann 209 (2003) 175
Defect formation in 6H-SiC irradiated by 3 MeV He ions, M. Sasase, Y. Ito, K. Yasuda, R. Ishigami, S. Hatori and A. Yamamoto 209 (2003) 179
Nucleation of 2D nanoislands in surface thermal spikes from swift heavy ions, A.E. Volkov and M.V. Sorokin 209 (2003) 184
Swift heavy ion induced amorphisation and chemical modification in polycarbonate, Y. Sun, Z. Zhu, Z. Wang, Y. Jin, J. Liu, M. Hou and Q. Zhang 209 (2003) 188
Electronic thermal spike effects in intermixing of bilayers induced by swift heavy ions, Z.G. Wang, C. Dufour, S. Euphrasie and M. Toulemonde 209 (2003) 194
Blue–violet PL band formation in C:SiO_2 films after swift heavy ion irradiation, Z.G. Wang, Y.F. Jin, E.Q. Xie, J. Liu, Z.Y. Zhu, Y.M. Sun, M.D. Hou, Q.X. Zhang and X.X. Chen 209 (2003) 200
Role of the irradiation temperature on the modifications of swift-heavy-ion irradiated polyethylene, M. Mélot, Y. Ngono-Ravache and E. Balanzat 209 (2003) 205
A nanosecond pulse radiolysis study of the hydrated electron with high energy carbon ions, G. Baldacchino, G. Vigneron, J.-P. Renault, S. Pin, S. Rémita, Z. Abedinzadeh, S. Deycard, E. Balanzat, S. Bouffard, M. Gardès-Albert, B. Hickel and J.-C. Mialocq 209 (2003) 219
Three-dimensional dose verification in complex particle radiation fields based on X-ray films, B. Spielberger, M. Krämer, M. Scholz and G. Kraft 209 (2003) 277
Ion irradiation of CH_4-containing icy mixtures, G.A. Baratta, M. Domingo, G. Ferini, G. Leto, M.E. Palumbo, M.A. Satorre and G. Strazzulla 209 (2003) 283
Anomalous shift of Curie temperature in iron–nickel Invar alloys by high-energy heavy ion irradiation, A. Iwase, Y. Hamatani, Y. Mukumoto, N. Ishikawa, Y. Chimi, T. Kambara, C. Müller, R. Neumann and F. Ono . 209 (2003) 323
Effect of nanosized surfactant molecules on the etching of ion tracks: New degrees of freedom in design of pore shape, P.Yu. Apel, I.V. Blonskaya, O.L. Orelovitch, D. Root, V. Vutsadakis and S.N. Dmitriev 209 (2003) 329
Ion beam photography in sol–gel NiO–SiO_2 films, B. Canut, A. Merlen, V. Teodorescu, C. Ghica, C.S. Sandu, S.M.M. Ramos, C. Bovier, R. Espiau de la Maestre, A. Broniatowski and H. Bernas 209 (2003) 335
Ion micro-beam diagnostics with photodetectors, L. Cosentino, P. Finocchiaro, A. Pappalardo, A. Hermanne, H. Thienpont, M. Vervaeke, B. Volckaerts and P. Vynck 209 (2003) 340
Alpha-recoil tracks in natural dark mica: Dating geological samples by optical and scanning force microscopy, U.A. Glasmacher, M. Lang, S. Klemme, B. Moine, L. Barbero, R. Neumann and G.A. Wagner 209 (2003) 351
Etching behaviour of alpha-recoil tracks in natural dark mica studied via artificial ion tracks, M. Lang, U.A. Glasmacher, R. Neumann and G.A. Wagner 209 (2003) 357
Radiation effects of 200 MeV proton beams on Nd–Fe–B magnets, Y. Ito, K. Yasuda, M. Sasase, R. Ishigami, S. Hatori, K. Ohashi and S. Tanaka 209 (2003) 362
Radiation damage on 6H-SiC Schottky diodes, T. Nishijima, S.M. Hearne, D.N. Jamieson, T. Ohshima, K.K. Lee and H. Itoh 210 (2003) 196
About the art to shoot with single ions, B.E. Fischer, M. Heiß and M. Cholewa 210 (2003) 285

Single particle irradiation system to cell (SPICE) at NIRS, H. Yamaguchi, Y. Sato, H. Imaseki, N. Yasuda, T. Hamano, Y. Furusawa, M. Suzuki, T. Ishikawa, T. Mori, K. Matsumoto, T. Konishi, M. Yukawa and F. Soga 210 (2003) 292
Preparatory experiments for a single ion hit facility at GSI, M. Cholewa, B.E. Fischer and M. Heiß 210 (2003) 296
The design and application of ion microbeams for irradiating living cells and tissues, M. Folkard, B. Vojnovic, S. Gilchrist, K.M. Prise and B.D. Michael 210 (2003) 302
Irradiation of single mammalian cells with a precise number of energetic heavy ions – Applications of microbeams for studying cellular radiation response, Y. Kobayashi, T. Funayama, S. Wada, M. Taguchi and H. Watanabe 210 (2003) 308
Radiosurgery using heavy ion microbeams for biological study: Fate mapping of the cellular blastoderm-stage egg of the silkworm, *Bombyx mori*, K. Kiguchi, K. Shirai, R. Kanekatsu, Y. Kobayashi, Z.-L. Tu, T. Funayama and H. Watanabe 210 (2003) 312
CT based treatment planning system of proton beam therapy for ocular melanoma, T. Nakano, T. Kanai, S. Furukawa, K. Shibayama, S. Sato, T. Hiraoka, S. Morita and H. Tsujii 210 (2003) 316

Analysis of Materials

A systematic study of the surface roughening and sputter rate variations occurring during SIMS ultrashallow depth profile analysis of Si with Cs^+, P.A.W. van der Heide, M.S. Lim, S.S. Perry and J. Bennett 201 (2003) 413
Characterization of environmental exposure to mineral sands by PDMS technique, K. Dias da Cunha, R.D. Rickman and C.V. Barros Leite 201 (2003) 615
Investigation of deep implanted fluorine channeling profiles in silicon using resonant NRA, M. Kokkoris, G. Perdikakis, R. Vlastou, C.T. Papadopoulos, X.A. Aslanoglou, M. Posselt, R. Grötzschel, S. Harissopulos and S. Kossionides 201 (2003) 623
Simulation study of secondary electron images in scanning ion microscopy, K. Ohya and T. Ishitani 202 (2003) 305
The chemistry of alkali atoms on solid water: a study with MIES and UPS, S. Krischok, O. Höfft, J. Günster, R. Souda and V. Kempter 203 (2003) 124
Low energy spin polarized radioactive beams as a probe of thin films and interfaces, R.F. Kiefl, W.A. MacFarlane, P. Amaudruz, D. Arseneau, R. Baartman, T.R. Beals, J. Behr, J. Brewer, S. Daviel, A. Hatakeyama, B. Hitti, S.R. Kreitzman, C.D.P. Levy, R. Miller, M. Olivo, R. Poutissou, G.D. Morris, S.R. Dunsiger, R. Heffner, K.H. Chow, Y. Hirayama, H. Izumi, C. Bommas, E. Dumont and L.H. Greene ... 204 (2003) 682
Towards ultrahigh sensitivity analysis of ^{41}Ca, I.D. Moore, K. Bailey, Z.-T. Lu, P. Müller, T.P. O'Connor and L. Young 204 (2003) 701
"Isotope language" of the Alpine Iceman investigated with AMS and MS, W. Kutschera and W. Müller 204 (2003) 705
Characterization of metal-doped TiO_2 films by RBS/channeling, S. Yamamoto, T. Yamaki, H. Naramoto and S. Tanaka 206 (2003) 268
In situ observation of formation processes of titanium compound thin films due to ion implantation in a transmission electron microscope, Y. Kasukabe, Z.L. Dizard, Y. Fujino, H. Tani, M. Osaka, Y. Yamada and H. Abe 206 (2003) 390
RBS and SEM analysis of the nickel–fullerene hybrid systems, J. Vacik, H. Naramoto, K. Narumi, S. Yamamoto and H. Abe 206 (2003) 395
Dose dependence of the production yield of endohedral ^{133}Xe-fullerene by ion implantation, S. Watanabe, N.S. Ishioka, H. Shimomura, H. Muramatsu and T. Sekine 206 (2003) 399
Proton radiation analysis of multi-junction space solar cells, T. Sumita, M. Imaizumi, S. Matsuda, T. Ohshima, A. Ohi and H. Itoh 206 (2003) 448
RAPD analysis of mutants obtained by ion beam irradiation to hinoki cypress shoot primordia, K. Ishii, Y. Yamada, Y. Hase, N. Shikazono and A. Tanaka 206 (2003) 570
Thickness of ion implanted layers as determined by elastic recoil detection analysis and spectroscopic ellipsometry, S. Mändl, J.W. Gerlach, W. Assmann and B. Rauschenbach 206 (2003) 668
Lattice location of Fe in diamond, K. Bharuth-Ram, U. Wahl and J.G. Correia 206 (2003) 941
Annealing behavior and lattice site location of Er implanted InGaN, E. Alves, U. Wahl, M.R. Correia, S. Pereira, B. De Vries and A. Vantomme 206 (2003) 1042
Lattice site location and optical activity of Er implanted ZnO, E. Alves, E. Rita, U. Wahl, J.G. Correia, T. Monteiro, J. Soares and C. Boemare 206 (2003) 1047
Application of nuclear reaction geometry for ^3He depth profiling in nuclear ceramics, P. Trocellier, D. Gosset, D. Simeone, J.M. Costantini, X. Deschanels, D. Roudil, Y. Serruys, R. Grynszpan, S. Saudé and M. Beauvy 206 (2003) 1077

Electron microscopy and optical spectroscopy study of xenon-implanted yttria-stabilized zirconia, S. Zhu, X.T. Zu, X. Xiang, Z.G. Wang, L.M. Wang and R.C. Ewing 206 (2003) 1092
In situ observation of Raman scattering from Ag- and W-ions implanted polyimide films during laser irradiation, H. Watanabe and M. Iwaki 206 (2003) 1106
Ion beam analysis of the hydration of tricalcium silicate, J.S. Schweitzer, R.A. Livingston, C. Rolfs, H.-W. Becker and S. Kubsky 207 (2003) 80
Ion beam analysis of irradiation effects in 6H–SiC, W. Jiang, W.J. Weber, Y. Zhang, S. Thevuthasan and V. Shutthanandan 207 (2003) 92
Transuranic waste assay by neutron interrogation and online prompt and delayed neutron measurement, A.-C. Raoux, A. Lyoussi, C. Passard, C. Denis, J. Loridon, J. Misraki and P. Chany 207 (2003) 186
RBS and μPIXE analysis of uranium diffusion from bentonite to the rock matrix in a deep geological waste repository, U. Alonso, T. Missana, A. Patelli, J. Ravagnan and V. Rigato 207 (2003) 195
Secondary ion mass spectrometry depth profiling of ^{59}Co implanted into nickel, L. Vincent, T. Sauvage, S. Houdayer, C. Tessier, S. Gautrot, O. Katasov, J. Chaumont and M. Vayer 207 (2003) 339
Trace elemental analysis of carcinoma kidney and stomach by PIXE method, S. Bhuloka Reddy, M. John Charles, G.J. Naga Raju, V. Vijayan, B. Seetharami Reddy, M. Ravi Kumar and B. Sundareswar 207 (2003) 345
Quality assurance in elemental analysis of airborne particles, S.M. Almeida, M.A. Reis, M.C. Freitas and C.A. Pio 207 (2003) 434
Anomalous x-ray scattering on molten levitated samples, L. Hennet, D. Thiaudière, C. Landron, J.-F. Berar, M.-L. Saboungi, G. Matzen and D.L. Price 207 (2003) 447
Oxygen analysis using energetic ion beams, W. Jiang, V. Shutthanandan, S. Thevuthasan, D.E. McCready and W.J. Weber 207 (2003) 453
Small angle neutron scattering and transmission electron microscopy studies of interpenetrating polymer networks from thermoplastic elastomers, R.P. Burford, M.G. Markotsis and R.B. Knott 208 (2003) 58
Track core size estimation in CR-39 track detector using atomic force microscope and UV–visible spectrophotometer, T. Yamauchi, D. Mineyama, H. Nakai, K. Oda and N. Yasuda 208 (2003) 149
Investigations of SiO_x-polymer "interphases" by glancing angle RBS with Li^+ and Be^+ ions, G. Dennler, A. Houdayer, P. Raynaud, I. Séguy, Y. Ségui and M.R. Wertheimer 208 (2003) 176
Microscopic visualization of a biological response to charged particle traversal, G. Taucher-Scholz, B. Jakob, G. Becker and M. Scholz 209 (2003) 270
The impact of incident angle on multiple-bit upset in SRAMs, Q.X. Zhang, M.D. Hou, J. Liu, Z.G. Wang, Y.F. Jin, Z.Y. Zhu and Y.M. Sun 209 (2003) 367
Spatial distribution measured by the modulation transfer function, P. Rossi, D.K. Brice and B.L. Doyle 210 (2003) 85
Logic upsets in SRAMs using ion electron emission microscopy, B.L. Doyle, F.D. McDaniel, G. Vizkelethy, P.E. Dodd, P. Rossi and D.S. Walsh 210 (2003) 98
Nanometer resolusion three-dimensional microprobe RBS analyses by using a 200 kV focused ion beam system, R. Mimura, H. Takayama and M. Takai 210 (2003) 104
Development of nanoprobe TOF-RBS system for semiconductor process, H. Takayama, K. Iwasaki, K. Hayashi and M. Takai 210 (2003) 108
Development of a large-solid-angle and multi-device detection system for elemental analysis, T. Satoh, K. Ishii, T. Kamiya, T. Sakai, M. Oikawa, K. Arakawa, S. Matsuyama and H. Yamazaki 210 (2003) 113
3D imaging of elemental distributions using multi-angle RBS 2D-data, Y. Oishi, K. Hotta, K. Ishii, Y. Komori, S. Matsuyama, H. Yamazaki, Ts. Amartivan, M. Rodriguez, K. Katoh, D. Izukawa, K. Mizuma, T. Satoh, T. Kamiya, T. Sakai, K. Arakawa, M. Saidoh and M. Oikawa 210 (2003) 117
Ion photon emission microscopy, P. Rossi, B.L. Doyle, J.C. Banks, A. Battistella, G. Gennaro, F.D. McDaniel, M. Mellon, E. Vittone, G. Vizkelethy and N.D. Wing 210 (2003) 123
Phase correlations of elemental maps using nuclear microscopy, B. Rout, D.N. Jamieson, T. Hopf and C.G. Ryan 210 (2003) 129
Sensitive 3D hydrogen microscopy using high energy protons at SNAKE, P. Reichart, G. Dollinger, G. Datzmann, A. Hauptner, R. Hertenberger and H.-J. Körner 210 (2003) 135
Status of the ion electron emission microscope at the SIRAD single event effect facility, D. Bisello, A. Candelori, M. Dal Maschio, P. Giubilato, A. Kaminski, M. Nigro, D. Pantano, R. Rando, S. Sedykh, M. Tessaro and J. Wyss 210 (2003) 142
Calibration of an UTW Si(Li) detector in the 0.28–22.1 keV energy range at a nuclear microprobe, I. Uzonyi, Gy. Szabó, I. Borbély-Kiss and Á.Z. Kiss 210 (2003) 147
Development of "position–charge–time" tagged spectrometry for ion beam microanalysis, L. Daudin, H. Khodja and J.-P. Gallien 210 (2003) 153

Ion and X-ray micro-beam induced charge collection and their applications in CVD diamond detector characterisation, E. Vittone, A. Lo Giudice, C. Paolini, P. Olivero, C. Manfredotti, R. Barrett and V. Rigato 210 (2003) 159
Modeling of deep buried structures in high-power devices based on proton beam induced charge microscopy, M. Zmeck, L. Balk, T. Osipowicz, F. Watt, J. Phang, A. Khambadkone, F.-J. Niedernostheide and H.-J. Schulze 210 (2003) 164
Contribution of secondary fluorescence in the lateral resolution of a PIXE microprobe, G. Demortier and G. Mathot 210 (2003) 169
On the use of pulsed microbeam in IBIC, M. Jakšić, Z. Medunić and N. Skukan 210 (2003) 176
TCAD modeling of ion beam induced charge collection in silicon Schottky barrier devices, S.M. Hearne, D.N. Jamieson, C. Yang and A.S. Dzurak 210 (2003) 181
IBIC characterisation of novel detectors for single atom doping of quantum computer devices, C. Yang, D.N. Jamieson, C.I. Pakes, D.P. George, S.M. Hearne, A.S. Dzurak, E. Gauja, F. Stanley and R.G. Clark 210 (2003) 186
Ion beam induced charge collection time imaging of a silicon microdosimeter, I.M. Cornelius, I. Orlic, R. Siegele, A.B. Rosenfeld and D.D. Cohen 210 (2003) 191
Evaluation of the characteristics of silicon carbide diodes using transient-IBIC technique, T. Ohshima, K.K. Lee, S. Onoda, T. Kamiya, M. Oikawa, J.S. Laird, T. Hirao and H. Itoh 210 (2003) 201
Observation of single-ion induced charge collection in diode by a heavy ion microbeam system, T. Kamiya, M. Oikawa, T. Ohshima, T. Hirao, K.K. Lee, S. Onoda and J.S. Laird 210 (2003) 206
Anomalous charge collection from silicon-on-insulator structures, G. Vizkelethy, P.E. Dodd, J.R. Schwank, M.R. Shaneyfelt, D.S. Walsh, F.D. McDaniel and B.L. Doyle 210 (2003) 211
Investigation of floating body effects in PD-SOI-MOSFET using proton microprobe, S. Abo, M. Mizutani, K. Ikeda, A. Kinomura, T. Iwamatsu, S. Maegawa and M. Takai 210 (2003) 216
Comparison of the ion induced charge collection in Si epilayer and SOI devices, T. Hirao, H. Mori, J.S. Laird, S. Onoda and H. Itoh 210 (2003) 221
Studies on single-event phenomena using the heavy-ion microbeam at JAERI, T. Hirao, H. Mori, J.S. Laird, S. Onoda, T. Wakasa, H. Abe and H. Itoh 210 (2003) 227
Estimation of fast transient current degradation analyzed by non-ionizing energy loss, S. Onoda, T. Hirao, J.S. Laird, H. Mori, H. Itoh, T. Wakasa, T. Okamoto and Y. Koizumi 210 (2003) 232
Temperature dependent TRIBIC in CZT detectors, Z. Medunić, M. Jakšić, Ž. Pastuović and N. Skukan 210 (2003) 237
A comparison of heavy ion and picosecond laser microbeams for investigating single event transients in InGaAs on InP photodetectors, J.S. Laird, T. Hirao, S. Onoda, H. Mori and H. Itoh 210 (2003) 243
Characterization of ion-implanted silica glass by micro-photoluminescence and Raman spectroscopy, T. Souno, H. Nishikawa, M. Hattori, Y. Ohki, E. Watanabe, M. Oikawa, T. Kamiya and K. Arakawa 210 (2003) 277
Combination of synchrotron radiation X-ray microprobe and nuclear microprobe for chromium and chromium oxidation states quantitative mapping in single cells, R. Ortega, G. Devès, B. Fayard, M. Salomé and J. Susini 210 (2003) 325
Nuclear microprobe analysis of lead profile in crocodile bones, I. Orlic, R. Siegele, K. Hammerton, R.A. Jeffree and D.D. Cohen 210 (2003) 330
Trace elemental distributions in induced atherosclerotic lesions using nuclear microscopy, R. Minqin, F. Watt, B. Tan Kwong Huat and B. Halliwell 210 (2003) 336
Functional analysis of metals distribution in organs of the beetle *Chrysolina pardalina* exposed to excess of nickel by Micro-PIXE, W.J. Przybyłowicz, J. Mesjasz Przybyłowicz, P. Migula, E. Głowacka, M. Nakonieczny and M. Augustyniak 210 (2003) 343
Iron, transferrin and myelinogenesis, C. Sergeant, M.H. Vesvres, G. Devès, B. Baron and F. Guillou 210 (2003) 349
Elemental maps in human allantochorial placental vessels cells: 1. High K^+ and acetylcholine effects, C. Michelet-Habchi, Ph. Barberet, R.K. Dutta, A. Guiet-Bara, M. Bara and Ph. Moretto 210 (2003) 354
Investigation of cadmium toxicity on renal epithelial cells using nuclear microprobe analysis, H. Khodja, L. Avoscan, M. Carriere, F. Carrot and B. Gouget 210 (2003) 359
Nuclear microprobe imaging of gallium nitrate in cancer cells, R. Ortega, A. Suda and G. Devès 210 (2003) 364
Elemental imaging of rat epididymis by micro-PIXE analysis, S. Homma-Takeda, Y. Nishimura, Y. Watanabe, H. Imaseki and M. Yukawa 210 (2003) 368
Iron deposition in skin of patients with haemochromatosis, T. Pinheiro, J.N. Silva, L.C. Alves and P. Filipe 210 (2003) 373
Application of micro-PIXE technique to uptake study of cesium by *Saccharomyces cerevisiae*, T. Ohnuki, F. Sakamoto, N. Kozai, T. Ozaki, I. Narumi, A.J. Francis, H. Iefuji, T. Sakai, T. Kamiya, T. Satoh and M. Oikawa 210 (2003) 378
The kinetics of Fe and Ca for the development of radiation-induced apoptosis by micro-PIXE imaging, S. Harada, Y. Tamakawa, K. Ishii, A. Tanaka, T. Satoh, S. Matsuyama, H. Yamazaki, Y. Komori, T. Kamiya, T. Sakai, K. Arakawa, M. Saitoh, M. Oikawa and K. Sera 210 (2003) 383

Fluorine mapping of teeth treated with fluorine-releasing compound using PIGE, H. Yamamoto, M. Nomachi, K. Yasuda, Y. Iwami, S. Ebisu, N. Yamamoto, T. Sakai and T. Kamiya 210 (2003) 388
Quantitative microanalysis of perineuronal nets in brain tissue, T. Reinert, M. Morawski, T. Arendt and T. Butz 210 (2003) 395
Nuclear micro-probe analysis of *Arabidopsis thaliana* leaves, F.J. Ager, M.D. Ynsa, J.R. Domínguez-Solís, M.C. López-Martín, C. Gotor and L.C. Romero 210 (2003) 401
Micro-pixe study on sorption behaviors of cobalt by lichen biomass, T. Ohnuki, F. Sakamoto, N. Kozai, T. Sakai, T. Kamiya, T. Satoh and M. Oikawa 210 (2003) 407
Preliminary studies on the source of PM_{10} aerosol particles in the atmosphere of Shanghai City by analyzing single aerosol particles, X. Li, J. Zhu, P. Guo, J. Wang, Z. Qiu, R. Lu, H. Qiu, M. Li, D. Jiang, Y. Li and G. Zhang 210 (2003) 412
Probing for heavy element impurities in the shell of the Pacific oyster, *Crassostrea gigas*, with nuclear microscopy, A. Markwitz, B. Barry, R.W. Gauldie and R.D. Roberts 210 (2003) 418
Adsorption of aqueous Zn(II) species on synthetic zeolites, V. Badillo-Almaraz, P. Trocellier and I. Dávila-Rangel 210 (2003) 424
Micro-IL and micro-PIXE studies of rich diamond meteorites at Legnaro nuclear microprobe, A. Lo Giudice, G. Pratesi, P. Olivero, C. Paolini, E. Vittone, C. Manfredotti, F. Sammiceli and V. Rigato 210 (2003) 429
The partitioning of barium and lead between silicate melts and aqueous fluids at high pressures and temperatures, H. Bureau, B. Ménez, H. Khodja, L. Daudin, J.-P. Gallien, D. Massare, C. Shaw and N. Métrich 210 (2003) 434
Se, As, Mo, Ag, Cd, In, Sb, Pt, Au, Tl, Re traces in biogenic and abiogenic sulfides from Black Shales (Selwyn Basin, Yukon territories, Canada): A nuclear microprobe study, B. Orberger, J. Pasava, J.P. Gallien, L. Daudin and P. Trocellier 210 (2003) 441
Determination of the concentration of water dissolved in glasses and minerals using nuclear microprobe, H. Bureau, P. Trocellier, C. Shaw, H. Khodja, N. Bolfan-Casanova and S. Demouchy 210 (2003) 449
Nuclear microprobe analysis of uranium-rich speleothems: Methodological aspects, R. Ortega, G. Devès and R. Maire 210 (2003) 455
Measurement of hydrogen concentration in thick mineral or rock samples, K. Furuno, T. Komatsubara, K. Sasa, H. Oshima, Y. Yamato, S. Ishii, H. Kimura and M. Kurosawa 210 (2003) 459
Quantitative PIXE analysis of single fluid inclusions in quartz vein: Chemical composition of hydrothermal fluids related to granite, M. Kurosawa, S. Shimano, S. Ishii, K. Shima, T. Nakajima and T. Kato 210 (2003) 464
Development of the Tokai nuclear microprobe for natural analogue studies of nuclear waste, M. Kurosawa, K. Ueno, H. Kume, H. Kashiwazaki and S. Murao 210 (2003) 468
Age determination of monazites using the new experimental chamber of the Cracow proton microprobe, J. Lekki, S. Lebed, M.L. Paszkowski, M. Kusiak, J. Vogt, R. Hajduk, W. Polak, A. Potempa, Z. Stachura and J. Styczeń 210 (2003) 472
Investigation of incrusted pottery found in the territory of Hungary by micro-PIXE method, G.. Sziki, K.T. Biró, I. Uzonyi, E. Dobos and Á.Z. Kiss 210 (2003) 478
High-resolution channeling contrast microscopy of compositionally graded $Si_{1-x}Ge_x$ layers, H.L. Seng, T. Osipowicz, T.C. Sum, M.B.H. Breese, F. Watt, E.S. Tok and J. Zhang 210 (2003) 483
A comparative study of the radiation hardness of silicon carbide using light ions, K.K. Lee, T. Ohshima, A. Saint, T. Kamiya, D.N. Jamieson and H. Itoh 210 (2003) 489
High temperature chemical compatibility between SiC composites and Be pebbles, L.C. Alves, A. Paúl, M.R. da Silva, E. Alves, B. Riccardi and J.C. Soares 210 (2003) 495
Ionoluminescence and ion beam induced secondary electron imaging of cubic boron nitride, E.J. Teo, A.A. Bettiol, C.N.B. Udalagama and F. Watt 210 (2003) 501
^{3}He thermal diffusion coefficient measurement in crystalline ceramics by μnra depth profiling, P. Trocellier, D. Gosset, D. Simeone, J.M. Costantini, X. Deschanels, D. Roudil, Y. Serruys, R. Grynszpan, S. Saudé and M. Beauvy 210 (2003) 507
Uptake of cadmium by synthetic mica and apatite: Observation by micro-PIXE, N. Kozai, T. Ohnuki, S. Komarneni, T. Kamiya, T. Sakai, M. Oikawa and T. Satoh 210 (2003) 513
High temperature oxidation of zirconium and zircaloy-4 under applied load: Nuclear microprobe study of the growth of the oxide, P. Berger, R. El Tahhann, G. Moulin and M. Viennot 210 (2003) 519
Hydrogen redistribution in titanium due to bending stress studied by micro ERDA, D. Grambole, T. Wang, F. Herrmann and F. Eichhorn 210 (2003) 526
Evidence for intrinsic weak ferromagnetism in a C_{60} polymer by PIXE and MFM, D. Spemann, K.-H. Han, R. Höhne, T. Makarova, P. Esquinazi and T. Butz 210 (2003) 531

Carbon mapping in high temperature irradiated glasses, B. Boizot, V. Métayer, P. Trocellier, D. Ghaleb and G. Petite 210 (2003) 537
Microprobe analysis of light elements in nanoporous surfaces produced by helium ion implantation, V.J. Kennedy, P.B. Johnson, A. Markwitz, C.R. Varoy and K.T. Short 210 (2003) 543
Proton microprobe analysis of water trees in underground high voltage cables, M. Ahmed, M.A. Garwan, M.A. Al-Ohali, Z. Hamouz, K. Soufi, R. Minqin, I. Rajta and F. Watt 210 (2003) 548

Ion Sources, Beam Optics and Accelerator Systems

Possibility to increase RF ion source brightness for nuclear microprobe applications, V.I. Miroshnichenko, S.N. Mordik, V.V. Olshansky, K.N. Stepanov, V.E. Storizhko, B. Sulkio-Cleff and V. Voznyy 201 (2003) 630
Resolution limit of probe-forming systems with magnetic quadrupole lens triplets and quadruplets, A.G. Ponomarev, K.I. Melnik, V.I. Miroshnichenko, V.E. Storizhko and B. Sulkio-Cleff 201 (2003) 637
A modified ion sputter source with increased lifetime, M. Friedrich and H. Tyrroff 201 (2003) 645
Prospects for new science with EM devices, W. Nazarewicz, J. Dobaczewski, N. Michel, M. Ploszajczak, M.V. Stoitsov and J. Terasaki 204 (2003) 1
Advances at ISOL facilities, A. Shotter 204 (2003) 17
Accelerated radioactive beams from REX-ISOLDE, O. Kester, T. Sieber, S. Emhofer, F. Ames, K. Reisinger, P. Reiter, P.G. Thirolf, R. Lutter, D. Habs, B.H. Wolf, G. Huber, P. Schmidt, A.N. Ostrowski, R. von Hahn, R. Repnow, J. Fitting, M. Lauer, H. Scheit, D. Schwalm, H. Podlech, A. Schempp, U. Ratzinger, O. Forstner, F. Wenander, J. Cederkäll, T. Nilsson, M. Lindroos, H. Fynbo, S. Franchoo, U. Bergmann, M. Oinonen, J. Äystö, P. Van Den Bergh, P. Van Duppen, M. Huyse, N. Warr, D. Weisshaar, J. Eberth, B. Jonson, G. Nyman, M. Pantea, H. Simon, G. Shrieder, A. Richter, O. Tengblad, T. Davinson, P.J. Woods, G. Bollen, L. Weissmann, L. Liljeby, K.G. Rensfelt and the ISOLDE collaboration 204 (2003) 20
First results at SPIRAL-GANIL, A.C.C. Villari and the SPIRAL group 204 (2003) 31
Status of radioactive ion beams at the HRIBF, D.W. Stracener 204 (2003) 42
Post-acceleration of ^{7}Be at the Louvain-la-Neuve radioactive ion beam facility, M. Gaelens, M. Cogneau, M. Loiselet and G. Ryckewaert 204 (2003) 48
Recent developments at the ISOL facility of GSI Darmstadt, E. Roeckl, A. Blazhev, K. Burkard, J. Döring, H. Grawe, W. Hüller, R. Kirchner, C. Mazzocchi, I. Mukha and C. Plettner 204 (2003) 53
An ISOL test-bench at China Institute of Atomic Energy, B. Cui, J. Qin, L. Li, R. Wang and Y. Bao 204 (2003) 58
Current progress of nuclear astrophysics study and BRNBF at CIAE, W. Liu, Z. Li, X. Bai, Y. Wang, G. Lian, S. Zeng, S. Yan, B. Wang, Z. Zhao, T. Zhang, H. Tang, B. Yang, X. Guan and B. Cui 204 (2003) 62
The Super-FRS project at GSI, H. Geissel, H. Weick, M. Winkler, G. Münzenberg, V. Chichkine, M. Yavor, T. Aumann, K.H. Behr, M. Böhmer, A. Brünle, K. Burkard, J. Benlliure, D. Cortina-Gil, L. Chulkov, A. Dael, J.-E. Ducret, H. Emling, B. Franczak, J. Friese, B. Gastineau, J. Gerl, R. Gernhäuser, M. Hellström, B. Jonson, J. Kojouharova, R. Kulessa, B. Kindler, N. Kurz, B. Lommel, W. Mittig, G. Moritz, C. Mühle, J.A. Nolen, G. Nyman, P. Roussel-Chomaz, C. Scheidenberger, K.-H. Schmidt, G. Schrieder, B.M. Sherrill, H. Simon, K. Sümmerer, N.A. Tahir, V. Vysotsky, H. Wollnik and A.F. Zeller 204 (2003) 71
RFQ-cooler for low-energy radioactive ions at ISOLDE, A. Jokinen, M. Lindroos, E. Molin, M. Petersson and The ISOLDE Collaboration 204 (2003) 86
Commissioning the A1900 projectile fragment separator, D.J. Morrissey, B.M. Sherrill, M. Steiner, A. Stolz and I. Wiedenhoever 204 (2003) 90
In-flight RI beam separator BigRIPS at RIKEN and elsewhere in Japan, T. Kubo 204 (2003) 97
Status of ACCULINNA beam line, A.M. Rodin, S.V. Stepantsov, D.D. Bogdanov, M.S. Golovkov, A.S. Fomichev, S.I. Sidorchuk, R.S. Slepnev, R. Wolski, G.M. Ter-Akopian, Yu.Ts. Oganessian, A.A. Yukhimchuk, V.V. Perevozchikov, Yu.I. Vinogradov, S.K. Grishechkin, A.M. Demin, S.V. Zlatoustovskiy, A.V. Kuryakin, S.V. Fil'chagin and R.I. Ilkaev 204 (2003) 114
Energy and range focusing of in-flight separated exotic nuclei – A study for the energy-buncher stage of the low-energy branch of the Super-FRS, C. Scheidenberger, H. Geissel, M. Maier, G. Münzenberg, M. Portillo, G. Savard, P. Van Duppen, H. Weick, M. Winkler, M. Yavor, F. Attallah, K.-H. Behr, V. Chichkine, S. Eliseev, M. Hausmann, M. Hellström, E. Kaza, B. Kindler, Y. Litvinov, B. Lommel, G. Marx, M. Matos, N. Nankov, T. Ohtsubo, K. Sümmerer, Z.-Y. Sun and Z. Zhou 204 (2003) 119
Review of ISOL target–ion-source systems, R. Kirchner 204 (2003) 179
ISAC target operation with high proton currents, M. Dombsky, P. Bricault, P. Schmor and M. Lane 204 (2003) 191

Advanced target concepts for production of radioactive ions and neutrino beams, H.L. Ravn and The ISOLDE Collaboration and the Neutrino-Facroty Working Group 204 (2003) 197
Study of isotopes production for the SPES project, A. Andrighetto, J. Li, C. Petrovich and Q. You 204 (2003) 205
An improved analytical model of diffusion through the RIST target, J.R.J. Bennett 204 (2003) 211
The development of fast tantalum foil targets for short-lived isotopes, J.R.J. Bennett, U.C. Bergmann, P.V. Drumm, H. Ravn and Members of the ISOLDE Collaboration 204 (2003) 215
Production yields of noble-gas isotopes from ISOLDE UC_x/graphite targets, U.C. Bergmann, G. Auböck, R. Catherall, J. Cederkäll, C.Aa. Diget, L. Fraile, S. Franchoo, H. Fynbo, H. Gausemel, U. Georg, T. Giles, H. Jeppesen, O.C. Jonsson, U. Köster, J. Lettry, T. Nilsson, K. Peräjärvi, H. Ravn, K. Riisager, L. Weissman, J. Äystö and The ISOLDE Collaboration 204 (2003) 220
The role of diffusion in ISOL targets for the production of radioactive ion beams, G.J. Beyer, E. Hagebø, A.F. Novgorodov, H.L. Ravn and The ISOLDE Collaboration 204 (2003) 225
Radioactive ion beams produced by neutron-induced fission at ISOLDE, R. Catherall, J. Lettry, S. Gilardoni, U. Köster and The ISOLDE Collaboration 204 (2003) 235
Efficiency and production yield measurements of radioactive O, N and F for the spiral facility, S. Gibouin, A.C.C. Villari, J.C. Angelique, O. Bajeat, F. Bocage, J.M. Casandjian, S. Essabaa, G. Gaubert, Y. Huguet, A. Joinet, P. Jardin, S. Kandri, A. Khouaja, F. Landre-Pellemoine, C. Lau, N. Lecesne, H. Lefort, R. Leroy, C. Marry, L. Maunoury, D. Nayak, J.Y. Pacquet, M.G. Saint-Laurent and C. Stodel 204 (2003) 240
Recent studies to improve release properties from thick isotope separator on-line fission targets, C. Lau, B. Roussière, D. Verney, O. Bajeat, F. Ibrahim, F. Clapier, E. Cottereau, C. Donzaud, M. Ducourtieux, S. Essabaa, D. Guillemaud-Mueller, F. Hosni, H. Lefort, F. Le Blanc, A.C. Mueller, J. Obert, N. Pauwels, J.C. Potier, F. Pougheon, J. Proust, J. Sauvage and A. Wojtasiewicz 204 (2003) 246
Effects of thermal shocks on the release of radioisotopes and on molten metal target vessels, J. Lettry, G. Arnau, M. Benedikt, S. Gilardoni, R. Catherall, U. Georg, G. Cyvogt, A. Fabich, O. Jonsson, H. Ravn, S. Sgobba, The ISOLDE Collaboration, G. Bauer, H. Brucherstseifer, T. Graber, C. Güdermann, L. Ni and R. Rastani 204 (2003) 251
Production of neutron-rich surface-ionized nuclides at PARRNe, C. Lau, F. Hosni, O. Perru, O. Bajeat, R. Borcea, Ch. Bourgeois, C. Donzaud, M. Ducourtieux, S. Essabaa, D. Guillemaud-Mueller, F. Ibrahim, H. Lefort, J. Obert, J.C. Potier, E. Fioretto, G. Lhersonneau, G. Prete, L. Stroe, L. Tecchio, B. Pfeiffer, A. Joinet, U. Köster, J. Lettry and K. Peräjärvi 204 (2003) 257
Transverse emittance investigation of the ISOLDE target-ion sources, F. Wenander, J. Lettry and M. Lindroos 204 (2003) 261
Production of neutron rich nuclides from uranium carbide targets of different density, A. Andrighetto, A.E. Barzakh, D.V. Fedorov, V.S. Ivanov, F.V. Moroz, S.Yu. Orlov, V.N. Panteleev, M.D. Seliverstov, I.M. Strachnov, L. Stroe, L. Tecchio and Yu.M. Volkov 204 (2003) 267
Studies of release properties of ISOLDE targets, K. Peräjärvi, U.C. Bergmann, V.N. Fedoseyev, A. Joinet, U. Köster, C. Lau, J. Lettry, H. Ravn, M. Santana-Leitner and The ISOLDE Collaboration 204 (2003) 272
Fragmentation cross sections outside the limiting-fragmentation regime, K. Sümmerer 204 (2003) 278
High-power production targets for the Super-FRS using a fast extraction scheme, N.A. Tahir, M. Winkler, J. Kojouharova, P. Roussel-Chomaz, V. Chishkine, H. Geissel, D.H.H. Hoffmann, B. Kindler, F. Landre-Pellemoine, B. Lommel, W. Mittig, G. Münzenberg, A. Shutov, H. Weick and M. Yavor 204 (2003) 282
Optimization of ISOL targets based on Monte-Carlo simulations of ion release curves, B. Mustapha and J.A. Nolen 204 (2003) 286
Development of windowless liquid lithium targets for fragmentation and fission of 400-kW uranium beams, J.A. Nolen, C.B. Reed, A. Hassanein, V.J. Novick, P. Plotkin and J.R. Specht 204 (2003) 293
An adjustable thickness Li/Be target for fragmentation of 4-kW heavy ion beams, J.A. Nolen, C.B. Reed, A. Hassanein, V.J. Novick, P. Plotkin, J.R. Specht, D.J. Morrissey, J.H. Ottarson and B.M. Sherrill 204 (2003) 298
Oxide fiber targets at ISOLDE, U. Köster, U.C. Bergmann, D. Carminati, R. Catherall, J. Cederkäll, J.G. Correia, B. Crepieux, M. Dietrich, K. Elder, V.N. Fedoseyev, L. Fraile, S. Franchoo, H. Fynbo, U. Georg, T. Giles, A. Joinet, O.C. Jonsson, R. Kirchner, Ch. Lau, J. Lettry, H.J. Maier, V.I. Mishin, M. Oinonen, K. Peräjärvi, H.L. Ravn, T. Rinaldi, M. Santana-Leitner, U. Wahl, L. Weissman and the ISOLDE Collaboration 204 (2003) 303
Developments in high-intensity two-step target design, W.L. Talbert, D.M. Drake, H.-H. Hsu and M.T. Wilson 204 (2003) 314
High power target developments at ISAC, P. Bricault, M. Dombsky, A. Dowling and M. Lane 204 (2003) 319
Laser resonance ionization for efficient and selective ionization of rare species, K.D.A. Wendt, K. Blaum, Ch. Geppert, R. Horn, G. Passler, N. Trautmann and B.A. Bushaw 204 (2003) 325
A novel scheme for a highly selective laser ion source, K. Blaum, C. Geppert, H.-J. Kluge, M. Mukherjee, S. Schwarz and K. Wendt 204 (2003) 331

Beams of isotopes produced at LISOL by laser ionization after thermalization of energetic ions in a gas cell, Yu. Kudryavtsev, M. Facina, M. Huyse, J. Gentens, P. Van den Bergh and P. Van Duppen 204 (2003) 336
Off-line production of intense $^{7,10}Be^{+}$ beams, U. Köster, M. Argentini, R. Catherall, V.N. Fedoseyev, H.W. Gäggeler, O.C. Jonsson, R. Weinreich and ISOLDE Collaboration 204 (2003) 343
On-line yields obtained with the ISOLDE RILIS, U. Köster, V.N. Fedoseyev, A.N. Andreyev, U.C. Bergmann, R. Catherall, J. Cederkäll, M. Dietrich, H. De Witte, D.V. Fedorov, L. Fraile, S. Franchoo, H. Fynbo, U. Georg, T. Giles, M. Gorska, M. Hannawald, M. Huyse, A. Joinet, O.C. Jonsson, K.L. Kratz, K. Kruglov, Ch. Lau, J. Lettry, V.I. Mishin, M. Oinonen, K. Partes, K. Peräjärvi, B. Pfeiffer, H.L. Ravn, M.D. Seliverstov, P. Thirolf, K. Van de Vel, P. Van Duppen, J. Van Roosbroeck, L. Weissman, IS365, IS387, IS393 and ISOLDE Collaborations 204 (2003) 347
Atomic spectroscopy studies of short-lived isotopes and nuclear isomer separation with the ISOLDE RILIS, V.N. Fedosseev, D.V. Fedorov, R. Horn, G. Huber, U. Köster, J. Lassen, V.I. Mishin, M.D. Seliverstov, L. Weissman, K. Wendt and The ISOLDE Collaboration 204 (2003) 353
A laser ion source with a thin ohmic-heating ionizer for the TIARA-ISOL, M. Koizumi, A. Osa, M. Oshima, T. Sekine, T. Wakui, W.G. Jin, H. Katsuragawa, H. Miyatake and Y. Ishida 204 (2003) 359
Alkali suppression within laser ion-source cavities and time structure of the laser ionized ion-bunches, J. Lettry, R. Catherall, U. Köster, U. Georg, O. Jonsson, S. Marzari, V. Fedosseev and The ISOLDE Collaboration 204 (2003) 363
The 2.45 GHz ECR ion source for the first stage of the DRIBs project, A. Efremov, V. Bekhterev, S. Bogomolov, G. Gulbekyan, A.N. Lebedev, V.N. Loginov, Yu.I. Smirnov and M. Leporis 204 (2003) 368
Ion source development for the JAERI on-line isotope separator, S. Ichikawa, A. Osa, M. Matsuda, K. Tsukada, M. Asai, Y. Nagame, S.C. Jeong and I. Katayama 204 (2003) 372
Optimization of ECR singly-charged ion sources for the radioactive ion beam production, P. Jardin, W. Farabolini, G. Gaubert, J.Y. Pacquet, T. Drobert, J. Cornell, C. Barue, C. Canet, M. Dupuis, J.-L. Flambard, N. Lecesne, P. Leherissier, F. Lemagnen and R. Leroy 204 (2003) 377
High temperature electron beam ion source for the production of single charge ions of most elements of the Periodic Table, V.N. Panteleev, A. Andrighetto, A.E. Barzakh, D.V. Fedorov, V.S. Ivanov, F.V. Moroz, S.Yu. Orlov, M.D. Seliverstov, L. Stroe, L. Tecchio and Yu.M. Volkov 204 (2003) 382
A hollow cathode discharge modification as a source of sputtered atoms and their ions, D. Zhechev, V.I. Zhemenik, S. Tileva, G.V. Mishinsky and N. Pyrvanova 204 (2003) 387
Low energy beam transport design optimization for RIBs, R. Baartman 204 (2003) 392
Acceleration of radioactive ions, R.E. Laxdal 204 (2003) 400
Beamline design for the transport of high intensity beams, G. Ciavola, S. Gammino, L. Celona, L. Andò, M. Maggiore, P. Spadtke, M. Winkler and H. Wollnik 204 (2003) 410
Testing the ISAC radioactive ion accelerator beam specifications using the $H(^{15}N,\alpha\gamma)^{12}C$ reaction, S. Engel, L. Buchmann, A. Chen, J.M. D'Auria, D.A. Hutcheon, C.S. Galovich, D. Gigliotti, U. Greife, D. Hunter, A. Hussein, C.C. Jewett, W. Liu, A. Olin, D. Ottewell and J. Rogers 204 (2003) 416
The development of an ECR charge breeder for KEK-JAERI joint RNB project, S.C. Jeong, M. Oyaizu, E. Tojyo, H. Kawakami, H. Ishiyama, H. Miyatake, K. Enomoto, Y. Watanabe, I. Katayama, T. Nomura, M. Matsuda, A. Osa and S. Ichikawa 204 (2003) 420
First radioactive ions charge bred in REXEBIS at the REX-ISOLDE accelerator, B.H. Wolf, J. Cederkäll, O. Forstner, F. Wenander, F. Ames, K. Reisinger, L. Liljeby, Ö. Skeppstedt, B. Jonson, G. Nyman and The REX-ISOLDE Collaboration 204 (2003) 428
A post-accelerator for the US rare isotope accelerator facility, P.N. Ostroumov, M.P. Kelly, A.A. Kolomiets, J.A. Nolen, M. Portillo, K.W. Shepard and N.E. Vinogradov 204 (2003) 433
Production of an accelerated oxygen-14 beam, J. Powell, J.P. O'Neil and J. Cerny 204 (2003) 440
Development of an intense O-15 radioactive ion beam using low energy protons, S. Lapi, T.J. Ruth, A. Zyuzin and J.M. D'Auria 204 (2003) 444
Numerical computation of arbitrary order transfer maps and reconstructive correction of aberrations in the large acceptance spectrometer MAGNEX, V.A. Shchepunov, A. Cunsolo, F. Cappuzzello, A. Foti, A. Lazzaro, A.L. Melita, C. Nociforo and J.S. Winfield 204 (2003) 447
Development and test of iron-free quadrupole lenses with high magnetic flux densities, M. Winkler, V. Chichkine, K.-H. Behr, H. Geissel, S. Eliseev, A. Kalimov, G. Li, G. Münzenberg, W.R. Plaß, C. Scheidenberger, Z. Wang, H. Weick and H. Wollnik 204 (2003) 454
A second-generation ion beam buncher and cooler, S. Schwarz, G. Bollen, D. Lawton, A. Neudert, R. Ringle, P. Schury and T. Sun 204 (2003) 474
Cooling and bunching of ion beams for collinear laser spectroscopy, A. Nieminen, P. Campbell, J. Billowes, D.H. Forest, J.A.R. Griffith, J. Huikari, A. Jokinen, I.D. Moore, R. Moore, G. Tungate and J. Äystö 204 (2003) 563

Polarized radioactive beam at ISAC, C.D.P. Levy, A. Hatakeyama, Y. Hirayama, R.F. Kiefl, R. Baartman, J.A. Behr, H. Izumi, D. Melconian, G.D. Morris, R. Nussbaumer, M. Olivo, M. Pearson, R. Poutissou and G.W. Wight 204 (2003) 689
Time-of-flight isotope separator for a second-generation ISOL facility, B. Jacquot 204 (2003) 785
Status and perspectives of atomic physics research at GSI: The new GSI accelerator project, Th. Stöhlker, H. Backe, H.F. Beyer, F. Bosch, A. Bräuning-Demian, S. Hagmann, D.C. Ionescu, K. Jungmann, H.-J. Kluge, C. Kozhuharov, Th. Kühl, D. Liesen, R. Mann, P.H. Mokler and W. Quint 205 (2003) 156
Third generation ECR ion sources: News and perspectives, S. Gammino, G. Ciavola, L. Celona, L. Andò, D. Hitz, A. Girard and G. Melin 205 (2003) 162
Multiply charged ion production with ECR ion sources: State of the art and prospects, D. Hitz, A. Girard, G. Melin, D. Cormier, J.M. Mathonnet, F. Lansaque, K. Serebrenikov and L.T. Sun 205 (2003) 168
Overview of the Livermore electron beam ion trap project, P. Beiersdorfer, E. Behar, K.R. Boyce, G.V. Brown, H. Chen, K.C. Gendreau, A. Graf, M.-F. Gu, C.L. Harris, S.M. Kahn, R.L. Kelley, J.K. Lepson, M.J. May, P.A. Neill, E.H. Pinnington, F.S. Porter, A.J. Smith, C.K. Stahle, A.E. Szymkowiak, A. Tillotson, D.B. Thorn, E. Träbert and B.J. Wargelin 205 (2003) 173
Development of a cold HCI source for ultra-slow collisions, N. Oshima, T.M. Kojima, M. Niigaki, A. Mohri, K. Komaki, Y. Iwai and Y. Yamazaki 205 (2003) 178
Tests of a laser ion source at the Heidelberg electron beam ion trap, V. Mironov, M. Trinczek, A. Werdich, A.J. González Martínez, P. Guo, X. Zhang, J. Braun, J.R. Crespo López-Urrutia and J. Ullrich 205 (2003) 183
A compact electron beam ion source equipped with a bulk high-T_c superconductor solenoid, A. Endo, N. Nakamura, Y. Kanai, Y. Nakai, K.-i. Komaki and Y. Yamazaki 205 (2003) 187
A high-current electron gun for electron–ion collision physics, W. Shi, J. Jacobi, H. Knopp, S. Schippers and A. Müller 205 (2003) 201
Particle-in-cell code library for numerical simulation of the ECR source plasma, G. Shirkov, V. Alexandrov, V. Preisendorf, V. Shevtsov, A. Filippov, R. Komissarov, V. Mironov, E. Shirkova, O. Strekalovsky, N. Tokareva, A. Tuzikov, V. Vatulin, E. Vasina, V. Fomin, A. Anisimov, R. Veselov, A. Golubev, S. Grushin, V. Povyshev, A. Sadovoi, E. Donskoi, T. Nakagawa and Y. Yano 205 (2003) 215
Simulation and optimization of ion beam lines from ion sources, V. Alexandrov, N. Kazarinov, V. Shevtsov and G. Shirkov 205 (2003) 220
Optimisation of highly charged ion currents and efficiency in ECR ion sources, M. Cavenago 205 (2003) 225
A new device for the study of electron–ion interactions, F.J. Currell, J. Aiken, K.F. Dunn, X. Lu, R.W. McCullough, E.J. Sokell, B.E. O'Rourke, V. Krastev and H. Watanabe 205 (2003) 230
Numerical simulation of the charge balance in an EBIT, X. Lu, H. Watanabe and F.J. Currell 205 (2003) 234
Magnetic and electrode structure design for a new EBIT, H. Watanabe, J. Aiken, V. Krastev, X. Lu, B.E. O'Rourke and F.J. Currell 205 (2003) 239
EBIT diagnostics using X-ray spectra of highly ionized Ne, M. Matranga, M. Barbera, A. Maggio, G. Peres, S. Serio, E. Takács, E. Silver, J. Gillaspy, H. Schnopper, M. Laming, J. Beeman, E. Haller and N. Madden . 205 (2003) 244
Sawtooth-like X-ray emission observed in EBIT, R. Radtke, C. Biedermann and P. Bachmann 205 (2003) 250
Line ratios and wavelengths of helium-like argon $n = 2$ satellite transitions and resonance lines, C. Biedermann, R. Radtke and K. Fournier 205 (2003) 255
X-ray spectroscopy and ion extraction at the Dresden EBIT, U. Kentsch, S. Landgraf, M. Schmidt, G. Zschornack, F. Grossmann, V.P. Ovsyannikov and F. Ullmann 205 (2003) 260
Dresden EBIT: Trap properties and ion production studied by X-ray spectroscopy of helium-like argon, U. Kentsch, G. Zschornack, F. Grossmann, V.P. Ovsyannikov and F. Ullmann 205 (2003) 266
Multiphoton pair production by a highly charged ion in an intense laser field, C. Müller, A.B. Voitkiv and N. Grün 205 (2003) 306
Interaction of intense laser pulses with atomic clusters: Measurements of ion emission, simulations and applications, J.W.G. Tisch, N. Hay, K.J. Mendham, E. Springate, D.R. Symes, A.J. Comley, M.B. Mason, E.T. Gumbrell, T. Ditmire, R.A. Smith, J.P. Marangos and M.H.R. Hutchinson 205 (2003) 310
Characterization of argon cluster jets for laser interaction studies, F. Blasco, T. Caillaud, F. Dorchies, C. Stenz, J. Stevefelt, A.S. Boldarev and V.A. Gasilov 205 (2003) 324
Experimental study of K-shell X-ray emission from argon clusters irradiated by an ultra-intense laser pulse, T. Caillaud, F. Blasco, F. Dorchies, Y. Glinec, Ch. Stenz and J. Stevefelt 205 (2003) 329
X-ray emission from inner-shell ionization of Ne-like ions, K. Moribayashi, T. Kagawa and D.E. Kim 205 (2003) 334
Investigation of multiple ionization of Krypton induced by short laser pulses, I.M. Azzouz 205 (2003) 337
Xe(L) X-ray emission from laser–cluster interaction, L. Adoui, O. Gobert, P. Indelicato, E. Lamour, P. Meynadier, D. Normand, M. Perdrix, C. Prigent, J.-P. Rozet and D. Vernhet 205 (2003) 341

Short wavelength X-ray emission generated by high intensity laser irradiation on Xe clusters, K. Moribayashi 205 (2003) 346
Influence of the dynamical correlations on the ionization of irradiated metal clusters, E. Giglio, P.-G. Reinhard and E. Suraud 205 (2003) 350
Highly charged ions generated with intense laser beams, J. Krása, K. Jungwirth, B. Králiková, L. Láska, M. Pfeifer, K. Rohlena, J. Skála, J. Ullschmied, V. Hnatowicz, V. Peřina, J. Badziak, P. Parys, J. Wołowski, E. Woryna and A. Szydlowski 205 (2003) 355
Generation of the large current cluster ion beam, T. Seki, J. Matsuo, G.H. Takaoka and I. Yamada 206 (2003) 902
Drag force on ions in magnetized electron plasmas, B. Müllers, M. Walter, G. Zwicknagel, C. Carli and C. Toepffer 207 (2003) 462
Highly charged heavy ion generation by pulsed laser irradiation, S. Gammino, L. Torrisi, G. Ciavola, L. Andò, J. Wołowski, L. Laska, J. Krasa and A. Picciotto 209 (2003) 345
Present status and prospect of microbeams at TIARA, H. Watanabe and Y. Sudo 210 (2003) 1
The Munich ion microprobe: Characteristics and prospect, G. Dollinger, G. Datzmann, A. Hauptner, R. Hertenberger, H.-J. Körner, P. Reichart and B. Volckaerts 210 (2003) 6
The National University of Singapore high energy ion nano-probe facility: Performance tests, F. Watt, J.A. van Kan, I. Rajta, A.A. Bettiol, T.F. Choo, M.B.H. Breese and T. Osipowicz 210 (2003) 14
The Amsterdam quintuplet nuclear microprobe, M.J.J. van den Putte, J.F.J. van den Brand, D.N. Jamieson, B. Rout and R. Szymanski 210 (2003) 21
Ion microbeam facility at the Wakasa Wan Energy Research Center, K. Yasuda, M. Hatashita, S. Hatori, T. Inomata, R. Ishigami, Y. Ito, T. Kurita, M. Sasase and K. Takagi 210 (2003) 27
An energy spread minimization system for microbeam generation in the JAERI AVF cyclotron, M. Fukuda, S. Kurashima, N. Miyawaki, S. Okumura, T. Kamiya, M. Oikawa, Y. Nakamura, T. Nara, T. Agematsu, I. Ishibori, K. Yoshida, W. Yokota, K. Arakawa, Y. Kumata, Y. Fukumoto and K. Saito . 210 (2003) 33
Development of a compact and precise ion irradiation system, T. Iida, F. Sato, T. Tanaka and M. Naito 210 (2003) 37
The scanning microbeam PIXE analysis facility at NIRS, H. Imaseki, M. Yukawa, F. Watt, T. Ishikawa, H. Iso, T. Hamano, K. Matsumoto and N. Yasuda 210 (2003) 42
The Tsukuba high-energy nuclear microprobe for hydrogen analysis of mineral samples, K. Sasa, K. Furuno, Y. Yamato, H. Ohshima, S. Ishii, T. Komatsubara and M. Kurosawa 210 (2003) 48
Design of a focusing high-energy heavy ion microbeam system at the JAERI AVF cyclotron, M. Oikawa, T. Kamiya, M. Fukuda, S. Okumura, H. Inoue, S. Masuno, S. Umemiya, Y. Oshiyama and Y. Taira 210 (2003) 54
Preliminary results of microbeam at Tohoku University, S. Matsuyama, K. Ishii, H. Yamazaki, R. Sakamoto, M. Fujisawa, Ts. Amartaivan, Y. Ohishi, M. Rodriguez, A. Suzuki, T. Kamiya, M. Oikawa, K. Arakawa and N. Matsumoto 210 (2003) 59
Proposed laser ion source for the Columbia University microbeam, A.W. Bigelow, G. Randers-Pehrson and D.J. Brenner 210 (2003) 65
Progress in submicron width ion beam system using double acceleration lenses, Y. Ishii, A. Isoya and T. Kojima 210 (2003) 70
In situ monitoring of polyimide windows for external ion microbeams, A. Kinomura, Y. Mokuno, A. Chayahara, N. Tsubouchi and Y. Horino 210 (2003) 75
Active compensation of stray magnetic fields at LIPSION, D. Spemann, T. Reinert, J. Vogt, J. Wassermann and T. Butz 210 (2003) 79
Simulation of ion propagation in the microbeam line of CENBG using GEANT4, S. Incerti, Ph. Barberet, B. Courtois, C. Michelet-Habchi and Ph. Moretto 210 (2003) 92

Experimental Methods and Equipment

Low-energy electron-beam diagnostics based on the optical transition radiation, A.N. Aleinik, O.V. Chefonov, B.N. Kalinin, G.A. Naumenko, A.P. Potylitsyn, G.A. Saruev, A.F. Sharafutdinov and W. Wagner 201 (2003) 34
Quasimonochromatic resonant diffraction radiation as a possible tool for non-invasive beam diagnostics, P. Karataev, G. Naumenko and A. Potylitsyn 201 (2003) 133
Optical diffraction–transition radiation interferometry and its application to the measurement of beam divergence, A.G. Shkvarunets, R.B. Fiorito and P.G. O'Shea 201 (2003) 153
Synchrotron radiation contributions to optical diffraction radiation measurements, G.A. Naumenko 201 (2003) 184
Grating optical diffraction radiation – Promising technique for non-invasive beam diagnostics, P. Karataev, S. Araki, R. Hamatsu, H. Hayano, T. Hirose, T. Muto, G. Naumenko, A. Potylitsyn and J. Urakawa 201 (2003) 201
On the potential of the imaging atmospheric Cherenkov technique for study of the mass composition of primary cosmic radiation in the energy region above 30 TeV, F.A. Aharonian, V.V. Bugayov, J. Kettler, A.V. Plyasheshnikov and H.J. Völk 201 (2003) 217

Diffraction of real and virtual photons in a pyrolytic graphite crystal as source of intensive quasimonochromatic X-ray beam, E.A. Bogomazova, B.N. Kalinin, G.A. Naumenko, D.V. Padalko, A.P. Potylitsyn, A.F. Sharafutdinov and I.E. Vnukov 201 (2003) 276
Generation of bremsstrahlung during multiple passes of accelerated electrons through a thin target in a betatron, V.I. Bespalov, V.V. Kashkovsky and V.L. Chakhlov 201 (2003) 292
The quasimonochromatic X-ray radiation source on the basis of the electron beam of the microtron, Y.N. Adischev, V.N. Zabaev, A.P. Potylitsyn, U.S. Salikhbaev, A.N. Safarov, B.A. Skripnik, Y.Y. Stepnov and I. Khakberdiev 201 (2003) 300
Interpretation of non-linear Si p–i–n detector response data to low-Z ions, A. Menchaca-Rocha, R. Alfaro, E. Belmont-Moreno and A. Martínez-Dávalos 201 (2003) 426
Influence of doping Y^{3+} on the photo- and thermoluminescence of $PbWO_4$, B. Liu, C. Shi, Y. Wei and G. Hu 201 (2003) 520
Assessment of pulse height selection methods for several spectrum shapes in radiation detection, R.T. Mainardi, T.S. Plivelic and P.A. Derosa 201 (2003) 525
Development of a time-of-flight telescope for ERDA at the Jožef Stefan Institute, A. Razpet, P. Pelicon, Z. Rupnik and M. Budnar 201 (2003) 535
Direct simulation Monte Carlo method for gas cluster ion beam technology, Z. Insepov and I. Yamada 202 (2003) 283
Nanoscratching of silver (100) with a diamond tip, D. Mulliah, D. Christopher, S.D. Kenny and R. Smith 202 (2003) 294
PIC-MC simulation of an RF capacitively coupled Ar/H_2 discharge, E. Neyts, M. Yan, A. Bogaerts and R. Gijbels 202 (2003) 300
Technological challenges of new radioactive beam facilities, P. Van Duppen 204 (2003) 9
Recoil separators, C.N. Davids 204 (2003) 124
Gas-filled separators – An overview, M. Leino 204 (2003) 129
The design of a new gas-filled separator at JYFL, T. Enqvist, P. Heikkinen, H. Kettunen, P. Kuusiniemi, M. Leino, A.-P. Leppänen, C. Scholey and J. Uusitalo 204 (2003) 138
SASSYER: An old instrument for new physics at Yale, J.J. Ressler, R. Krücken, C.W. Beausang, J.M. D'Auria, H. Amro, R.F. Casten, M.A. Caprio, G. Gürdal, C. Hutter, A.A. Hecht, D. Meyer, M. Sciacciatano and N.V. Zamfir 204 (2003) 141
VAMOS: A variable mode high acceptance spectrometer for identifying reaction products induced by SPIRAL beams, H. Savajols 204 (2003) 146
Commissioning and operation of DRAGON, S. Engel and DRAGON Collaboration 204 (2003) 154
The FLNR JINR wide aperture separator COMBAS, A.G. Artukh, A.G. Semchenkov, V.A. Shchepunov, G.F. Gridnev, O.V. Semchenkova, Yu.M. Sereda, Yu.G. Teterev, A. Budzanowski, F. Koscielniak, J. Szmider, V.P. Kukhtin, E.V. Lamzin, Yu.P. Severgin and S.E. Sytchevsky 204 (2003) 159
Production and separation of neutron-rich rare isotopes around and below the Fermi energy, G.A. Souliotis, M. Veselsky, G. Chubarian and S.J. Yennello 204 (2003) 166
Development of the program LISE: application to fusion–evaporation, O.B. Tarasov and D. Bazin 204 (2003) 174
Precise atomic mass measurements by deflection mass spectrometry, R.C. Barber and K.S. Sharma 204 (2003) 460
Ion traps for radioactive beam manipulation and precision experiments, G. Bollen and S. Schwarz 204 (2003) 466
Pushing the relative mass accuracy limit of ISOLTRAP on exotic nuclei below 10 ppb, K. Blaum, D. Beck, G. Bollen, F. Herfurth, A. Kellerbauer, H.-J. Kluge, R.B. Moore, E. Sauvan, C. Scheidenberger, S. Schwarz and L. Schweikhard 204 (2003) 478
First on-line test of SHIPTRAP, G. Sikler, D. Ackermann, F. Attallah, D. Beck, J. Dilling, S.A. Elisseev, H. Geissel, D. Habs, S. Heinz, F. Herfurth, F. Heßberger, S. Hofmann, H.-J. Kluge, C. Kozhuharov, G. Marx, M. Mukherjee, J. Neumayr, W.R. Plaß, W. Quint, S. Rahaman, D. Rodríguez, C. Scheidenberger, M. Tarisien, P. Thirolf, V. Varentsov, C. Weber and Z. Zhou 204 (2003) 482
Improvements in the injection system of the Canadian Penning trap mass spectrometer, J. Clark, R.C. Barber, C. Boudreau, F. Buchinger, J.E. Crawford, S. Gulick, J.C. Hardy, A. Heinz, J.K.P. Lee, R.B. Moore, G. Savard, D. Seweryniak, K.S. Sharma, G. Sprouse, J. Vaz, J.C. Wang and Z. Zhou 204 (2003) 487
The proposed TITAN facility at ISAC for very precise mass measurements on highly charged short-lived isotopes, J. Dilling, P. Bricault, M. Smith, H.-J. Kluge and TITAN collaboration 204 (2003) 492
The high resolution spectrometer at ISOLDE, T.J. Giles, R. Catherall, V. Fedosseev, U. Georg, E. Kugler, J. Lettry and M. Lindroos 204 (2003) 497
Penning trap for isobaric mass separation at IGISOL, V.S. Kolhinen, T. Eronen, J. Hakala, A. Jokinen, S. Kopecky, S. Rinta-Antila, J. Szerypo and J. Äystö 204 (2003) 502
The low-energy-beam and ion-trap facility at NSCL/MSU, S. Schwarz, G. Bollen, D. Lawton, P. Lofy, D.J. Morrissey, J. Ottarson, R. Ringle, P. Schury, T. Sun, V. Varentsov and L. Weissman 204 (2003) 507
MAFFTRAP: ion trap system for MAFF, J. Szerypo, D. Habs, S. Heinz, J. Neumayr, P. Thirolf, A. Wilfart and F. Voit 204 (2003) 512

Comprehensive investigation of the angular transmission in magnetic spectrometers, J. Pereira-Conca, J. Benlliure and K.-H. Schmidt 204 (2003) 517
WITCH: a recoil spectrometer for β-decay, M. Beck, F. Ames, D. Beck, G. Bollen, B. Delauré, J. Deutsch, V.V. Golovko, V.Yu. Kozlov, I.S. Kraev, A. Lindroth, T. Phalet, W. Quint, K. Reisinger, P. Schuurmans, N. Severijns, B. Vereecke, S. Versyck and The EUROTRAPS Collaboration 204 (2003) 521
Neutral atom traps of radioactives, J.A. Behr 204 (2003) 526
TRIμP – a radioactive isotope trapping facility under construction at KVI, G.P. Berg, P. Dendooven, O. Dermois, M.N. Harakeh, R. Hoekstra, K. Jungmann, S. Kopecky, R. Morgenstern, A. Rogachevskiy, R. Timmermans, L. Willmann and H.W. Wilschut 204 (2003) 532
Towards measuring the charge radius of ^{6}He and ^{8}He, P. Müller, L.-B. Wang, K. Bailey, G.W.F. Drake, X. Du, J. Greene, A.M. Heinz, R.J. Holt, D. Henderson, R.V. Janssens, C.-L. Jiang, C. Law, Z.-T. Lu, I.D. Moore, T.P. O'Connor, R.C. Pardo, M. Paul, T. Pennington, K.E. Rehm and J.P. Schiffer 204 (2003) 536
Measuring isospin mixing in ^{36}Ar using a polarized, neutral atom trap, D. Melconian, D. Ashery, G. Ball, J.A. Behr, P. Bricault, B.A. Brown, M. Dombsky, K.P. Jackson, S. Fostner, A. Gorelov, M.N. Groves, S. Gu, M.R. Pearson, I.S. Towner, M. Trinczek and I. Vollrath 204 (2003) 540
Low current diagnostic devices for radioactive beams, D. Shapira 204 (2003) 544
Particle detectors for beam diagnosis and for experiments with stable and radioactive ions in the storage-cooler ring ESR, O. Klepper and C. Kozhuharov 204 (2003) 553
Improving isotope separator performance by beam cooling, R.B. Moore and O. Gianfrancesco 204 (2003) 557
Slow RI-beams from projectile fragment separators, M. Wada, Y. Ishida, T. Nakamura, Y. Yamazaki, T. Kambara, H. Ohyama, Y. Kanai, T.M. Kojima, Y. Nakai, N. Ohshima, A. Yoshida, T. Kubo, Y. Matsuo, Y. Fukuyama, K. Okada, T. Sonoda, S. Ohtani, K. Noda, H. Kawakami and I. Katayama 204 (2003) 570
Development and operation of gas catchers to thermalize fusion–evaporation and fragmentation products, G. Savard, J. Clark, C. Boudreau, F. Buchinger, J.E. Crawford, H. Geissel, J.P. Greene, S. Gulick, A. Heinz, J.K.P. Lee, A. Levand, M. Maier, G. Münzenberg, C. Scheidenberger, D. Seweryniak, K.S. Sharma, G. Sprouse, J. Vaz, J.C. Wang, B.J. Zabransky, Z. Zhou and The S258 Collaboration 204 (2003) 582
Segmented linear RFQ traps for nuclear physics, F. Herfurth 204 (2003) 587
Transport and extraction of radioactive ions stopped in superfluid helium, W.X. Huang, P. Dendooven, K. Gloos, N. Takahashi, K. Arutyunov, J.P. Pekola and J. Äystö 204 (2003) 592
Experimental developments for the investigation of superheavy elements, F.P. Heßberger 204 (2003) 597
The project of the mass separator of atomic nuclei produced in heavy ion induced reactions, Yu.Ts. Oganessian, V.A. Shchepunov, S.N. Dmitriev, M.G. Itkis, G.G. Gulbekyan, M.V. Khabarov, V.V. Bekhterev, S.L. Bogomolov, A.A. Efremov, S.V. Pashenko, S.V. Stepantsov, A.V. Yeremin, M.I. Yavor and A.G. Kalimov 204 (2003) 606
Results from the development of ionization detection systems for the DRAGON facility, A.A. Chen and The DRAGON Collaboration 204 (2003) 614
A double sided silicon strip detector as a DRAGON end detector, C. Wrede, A. Hussein, J.G. Rogers and J. D'Auria 204 (2003) 619
The CARDS array for neutron-rich decay spectroscopy at HRIBF, J.C. Batchelder, J.-C. Bilheux, C.R. Bingham, H.K. Carter, J.D. Cole, D. Fong, P.E. Garrett, R. Grzywacz, J.H. Hamilton, D.J. Hartley, J.K. Hwang, W. Krolas, D. Kulp, Y. Larochelle, A. Piechaczek, A.V. Ramayya, K.P. Rykaczewski, E.H. Spejewski, D.W. Stracener, M.N. Tantawy, J.A. Winger, J. Wood and E.F. Zganjar 204 (2003) 625
The S800 spectrograph, D. Bazin, J.A. Caggiano, B.M. Sherrill, J. Yurkon and A. Zeller 204 (2003) 629
The GREAT spectrometer, R.D. Page, A.N. Andreyev, D.E. Appelbe, P.A. Butler, S.J. Freeman, P.T. Greenlees, R.-D. Herzberg, D.G. Jenkins, G.D. Jones, P. Jones, D.T. Joss, R. Julin, H. Kettunen, M. Leino, P. Rahkila, P.H. Regan, J. Simpson, J. Uusitalo, S.M. Vincent and R. Wadsworth 204 (2003) 634
In-beam spectroscopy using the JYFL gas-filled magnetic recoil separator RITU, J. Uusitalo, P. Jones, P. Greenlees, P. Rahkila, M. Leino, A.N. Andreyev, P.A. Butler, T. Enqvist, K. Eskola, T. Grahn, R.-D. Herzberg, F. Hessberger, R. Julin, S. Juutinen, A. Keenan, H. Kettunen, P. Kuusiniemi, A-P. Leppänen, P. Nieminen, R. Page, J. Pakarinen, C. Scholey and The JUROSPHERE Collaboration 204 (2003) 638
A setup for high-resolution isotope shift measurements on unstable lithium isotopes, W. Nörtershäuser, A. Dax, G. Ewald, I. Katayama, R. Kirchner, H.-J. Kluge, T. Kühl, R. Sanchez, I. Tanihata, M. Tomaselli, H. Wang and C. Zimmermann 204 (2003) 644
Applications of digital pulse processing in nuclear spectroscopy, R. Grzywacz 204 (2003) 649
Radioactive beam experiments with large gamma-ray detector arrays, C.E. Svensson, R.A.E. Austin, G.C. Ball, P. Finlay, P.E. Garrett, G.F. Grinyer, G.S. Hackman, C.J. Osborne, F. Sarazin, H.C. Scraggs, M.B. Smith and J.C. Waddington 204 (2003) 660

GRETA: the gamma-ray energy-tracking array. Status of the development and physics opportunities, C.W. Beausang 204 (2003) 666
Calibration and simulation of a gamma array for DRAGON at ISAC, D.G. Gigliotti, J.G. Rogers and A.H. Hussein 204 (2003) 671
Investigation of scintillation detectors for relativistic heavy ion calorimetry, R. Lozeva, A. Banu, D. Balabanski, J. Gerl, M. Górska, I. Kojouharov, Y. Kopatch, S. Mandal, H. Schaffner and H-J.-J. Wollersheim 204 (2003) 678
The role of electromagnetic separators in the production of radiotracers for bio-medical research and nuclear medical application, G.J. Beyer and T.J. Ruth 204 (2003) 694
Plans for the future facility at GSI, W.F. Henning 204 (2003) 725
Future plans at ISOLDE, M. Lindroos, the CERN ISOLDE team, the ISOLDE Collaboration and the REX-ISOLDE Collaboration 204 (2003) 730
RI beam factory project at RIKEN, T. Motobayashi 204 (2003) 736
The Munich accelerator for fission fragments MAFF, D. Habs, M. Groß, W. Assmann, F. Ames, H. Bongers, S. Emhofer, S. Heinz, S. Henry, O. Kester, J. Neumayr, F. Ospald, P. Reiter, T. Sieber, J. Szerypo, P.G. Thirolf, V. Varentsov, T. Wilfart, T. Faestermann, R. Krücken and P. Maier-Komor 204 (2003) 739
The KEK–JAERI joint RNB project, H. Miyatake, S. Arai, Y. Arakaki, Y. Fuchi, H. Ishiyama, S.C. Jeong, I. Katayama, H. Kawakami, K. Niki, T. Nomura, M. Okada, M. Oyaizu, Y. Takeda, M.H. Tanaka, E. Tojyo, M. Tomizawa, N. Yoshikawa, S. Abe, S. Hanashima, K. Horie, S. Ichikawa, H. Iimura, H. Ikezoe, T. Ishii, N. Ishizaki, A. Iwamoto, S. Kanda, M. Koizumi, M. Matsuda, S. Mitsuoka, Y. Nagame, T. Nakanoya, K. Nishio, I. Ohuchi, A. Osa, M. Oshima, M. Sataka, S. Takeuchi, H. Tayama, K. Tsukada, Y. Tsukihashi and T. Yoshida 204 (2003) 746
Future high intensity ISOL facilities: selected current RD topics and possible synergies with other projects, A.C. Mueller 204 (2003) 752
Status of the EURISOL project, J. Vervier 204 (2003) 759
Overview of the Rare Isotope Accelerator project, B.M. Sherrill 204 (2003) 765
Status of the RD for the rare isotope accelerator project, G. Savard 204 (2003) 771
Photo-fission for the production of radioactive beams ALTO project, S. Essabaa, J. Arianer, P. Ausset, O. Bajeat, J.P. Baronick, F. Clapier, L. Coacolo, C. Donzaud, M. Ducourtieux, S. Galès, D. Gardès, D. Grialou, F. Hosni, D. Guillemaud-Mueller, F. Ibrahim, T. Junquera, C. Lau, F. Le Blanc, H. Lefort, J.C. Le Scornet, J. Lesrel, A.C. Mueller, J. Obert, O. Perru, J.C. Potier, J. Proust, F. Pougheon, B. Roussière, N. Rouvière, J. Sauvage, O. Sorlin, A. Tkatchenko, D. Verney, B. Waast, L. Rinolfi, G. Rossat, D. Forkel-Wirth, A. Muller, G. Bienvenu, J.-C. Bourdon, T. Garvey, B. Jacquemard and M. Omeich 204 (2003) 780
Precision studies in traps: Measurement of fundamental constants and tests of fundamental theories, G. Werth, Th. Beier, S. Djekic, H.-J. Kluge, W. Quint, T. Valenzuela, J. Verdu and M. Vogel 205 (2003) 1
Astrophysics and spectroscopy with microcalorimeters on an electron beam ion trap, E. Takács, E. Silver, J.M. Laming, J.D. Gillaspy, H. Schnopper, N. Brickhouse, M. Barbera, M. Mantraga, L.P. Ratliff, H. Tawara, K. Makónyi, N. Madden, D. Landis, J. Beeman and E.E. Haller 205 (2003) 144
MOTRIMS as a generalized probe of AMO processes, R. Brédy, H. Nguyen, H. Camp, X. Fléchard and B.D. DePaola 205 (2003) 191
A single ion ($Ar^{q+}q = 1,3$ or C_{60}^{3+}) in a conic electrode electrostatic trap, J. Bernard, S. Martin, L. Chen, H. Cederquist, A. Salmoun and R. Brédy 205 (2003) 196
A forward electron spectrometer for the ESR, S. Hagmann, Th. Stöhlker, J. Ullrich, Ch. Kozhuharov, R. Moshammer, H. Kollmus, R. Mann and M. Nofal 205 (2003) 207
Applications of position sensitive germanium detectors for X-ray spectroscopy of highly charged heavy ions, Th. Stöhlker, D. Banas, H.F. Beyer, A. Gumberidze, C. Kozhuharov, E. Kanter, T. Krings, W. Lewoczko, X. Ma, D. Protic, D. Sierpowski, U. Spillmann, S. Tachenov and A. Warczak 205 (2003) 210
Physics with molecular ions in storage rings, D. Zajfman, S. Krohn, M. Lange, H. Kreckel, L. Lammich, D. Strasser, D. Schwalm, X. Urbain and A. Wolf 205 (2003) 360
Comparison of methods to measure the rate of neutral free radical production by photo-deionization of negative ion beams, K. Hayashi, H. Konno, T. Oseki, H. Kojima and T. Kanayama 206 (2003) 403
A new pixel sensor for uniformity control in ion implantation, J. Marchal, A. Al-Ajili, J. Scott, D. Doak, M. Abdalla, R. Gwilliam, Ch. Fröjdh, V. O'Shea, K. Smith and M. Rahman 206 (2003) 462
Ion beam alignment for liquid crystal display fabrication, J.P. Doyle, P. Chaudhari, J.L. Lacey, E.A. Galligan, S.C. Lien, A.C. Callegari, N.D. Lang, M. Lu, Y. Nakagawa, H. Nakano, N. Okazaki, S. Odahara, Y. Katoh, Y. Saitoh, K. Sakai, H. Satoh and Y. Shiota 206 (2003) 467
Growth of three-dimensional nano-structures using FIB-CVD and its mechanical properties, J. Fujita, M. Ishida, T. Ichihashi, Y. Ochiai, T. Kaito and S. Matsui 206 (2003) 472

Novel nano-fabrication technique utilizing ion beam, N. Nitta and M. Taniwaki 206 (2003) 482
Ion sheath evolution and plasma replenishment inside an 80-mm-diameter pipe for plasma-based ion implantation and deposition, X.X. Ma, K. Yukimura and T. Muraho 206 (2003) 787
A two-switch mode pulse modulator for plasma-based ion implantation and deposition, K. Yukimura and T. Muraho 206 (2003) 791
Characteristics of shunting arc discharge for carbon ion source, K. Takaki, S. Mukaigawa, T. Fujiwara, M. Kumagai and K. Yukimura 206 (2003) 794
Plasma-sheath expansion around trenches in plasma immersion ion implantation, B. Rauschenbach and S. Mändl 206 (2003) 803
Influence of magnetic field on magnetized hydrogen plasmas in plasma immersion ion implantation, D.L. Tang, R.K.Y. Fu, X.B. Tian, P. Peng and P.K. Chu 206 (2003) 808
Ion current on the inner surface of a pipe by plasma-based ion implantation and deposition, X.X. Ma, K. Yukimura, T. Ikehata and Y. Miyagawa 206 (2003) 813
Ion current extracted from a self ignition plasma around the target immersed in a pulsed ICP RF methane plasma, T. Tanaka, S. Watanabe, G. Mizuno, T. Takagi, M. Yoshida, H. Horibe and K. Yukimura 206 (2003) 817
Cluster ion beam process technology, I. Yamada, J. Matsuo, N. Toyoda and Collobrative Research Centre for Cluster Ion Beam Process Technology 206 (2003) 820
Gas cluster ion beam applications and equipment, A. Kirkpatrick 206 (2003) 830
Laser detection of surface acoustic waves as a method of measuring an Ar ion beam modification of carbon thin film, S.-i. Kitazawa, T.Y.S. Panca Putra, S. Sakai, K. Narumi, H. Naramoto, S. Yamamoto and A. Chiba 206 (2003) 952
On the theory of the polarization effects and its experimental test by angle-dependent Mössbauer spectroscopy with guanidinium nitroprusside $(CN_3H_6)_2[Fe(CN)_5NO]$ (GNP) single crystals, V. Rusanov, Sv. Stankov, V. Angelov, N. Koop, H. Winkler and A.X. Trautwein 207 (2003) 205
Investigation of orthopositronium 3γ-decay using a multidetector spectrometer, S.K. Andrukhovich, A.V. Berestov, N. Antovich, P. Vukotich, A.A. Gurinovich, A.A. Khrutchinsky and O.N. Metelitsa 207 (2003) 219
A new apparatus for the measurement of X-ray absorption by flame generated particles, J.B.A. Mitchell, J.L. LeGarrec, D. Travers, B.R. Rowe, R.J. Randler, A. Plech and M. Wulff 207 (2003) 227
A new approach to deal with non-linearities in Si detector response, A. Menchaca-Rocha, J.I. Cabrera, R. Alfaro, E. Belmont-Moreno and A. Martínez-Dávalos 207 (2003) 356
Focusing limits of channeled high energy particles in bent crystals, G.V. Kovalev 207 (2003) 482
A fully automated multi-spectral radioluminescence reading system for geochronometry and dosimetry, G. Erfurt, M.R. Krbetschek, V.J. Bortolot and F. Preusser 207 (2003) 487
LIGA process – micromachining technique using synchrotron radiation lithography – and some industrial applications, Y. Hirata 208 (2003) 21
Medium and high-energy electron beam radiation processing equipment for commercial applications, M.R. Cleland and L.A. Parks 208 (2003) 74
Developments in low energy electron beam machinery and processes, S.V. Nablo, J. Chrusciel, D.A. Cleghorn and I. Rangwalla 208 (2003) 90
Factors influencing equipment selection in electron beam processing, J.W. Barnard 208 (2003) 98
New electron beam facility for RD and production at acsion industries, V.J. Lopata, J.W. Barnard, C.B. Saunders and T.M. Stepanik 208 (2003) 102
The present situation of the irradiation application industry and irradiation facilities in Japan, K. Mizusawa and T. Baba 208 (2003) 106
Ion transport through asymmetric nanopores prepared by ion track etching, Z. Siwy, P. Apel, D. Dobrev, R. Neumann, R. Spohr, C. Trautmann and K. Voss 208 (2003) 143
Processing considerations with plasma-based ion implantation of polymers: theoretical aspects, limitations, and experimental results, A. Lacoste and J. Pelletier 208 (2003) 260

Letters to the Editor

Interpretation of non-linear Si p–i–n detector response data to low-*Z* ions, A. Menchaca-Rocha, R. Alfaro, E. Belmont-Moreno and A. Martínez-Dávalos 201 (2003) 426

Errata

Erratum to "Energy loss of ions in solids: Non-linear calculations for slow and swift ions" [Nucl. Instr. and Meth. B 195 (2002) 91–105], N.R. Arista 207 (2003) 232
Erratum to "Synchrotron topography of high temperature–pressure treated silicon implanted with helium" [Nucl. Instr. and Meth. B 200 (2003) 358–362], A. Misiuk, W. Wierzchowski, K. Wieteska, L. Bryja and W. Graeff 207 (2003) 233

BEAM INTERACTIONS WITH MATERIALS AND ATOMS
Nuclear Instruments and Methods in Physics Research – Section B

Instructions to Authors

(also accessible via the Elsevier Surfaces and Interfaces Home Page at http://www.elsevier.com/locate/surfaces)

Submission of papers

Contributions should be submitted to one of the Editors (see inside front cover). It is suggested that manuscripts originating from Europe, India, The Middle East and Africa be sent to Prof. H.H. Andersen, and from The Americas, The Far East and Australasia, to Dr. L.E. Rehn.
Manuscript and figures should be submitted in duplicate, with one set of good quality figure material for production of the printed figures. If possible, please submit also an electronic version of your contribution on diskette.
Short contributions of less than 1500 words and not subdivided into sections may be published as Letters to the Editor in a shorter time than regular articles as the proofs will normally be corrected by the Publisher.
Submission of a manuscript implies that it is not being considered for publication elsewhere and that the authors have obtained the necessary authority for publication.

Manuscript preparation

Manuscripts should be written in good English. They should be typed throughout with double line spacing and wide margins on numbered, single column pages. See notes opposite on electronic manuscripts.
Structure. Please adhere to the following order of presentation: article title, author(s), affiliations, abstract, PACS codes and keywords, main text, acknowledgements, appendices, references, figure captions, tables.
Corresponding author. The name, full postal address, telephone and fax numbers and e-mail address of the corresponding author should be given on the first page.
Classification codes/keywords. Please supply one to four classification codes (PACS and/or MSC), and up to six keywords of your own choice that describe the content of your article in more detail.
References to other publications should be numbered consecutively within square brackets and listed together at the end of the text. In the case of multiple authorship all authors should be listed in the references; only in case of more than ten authors is the first author et al. acceptable.

Illustrations

The Publisher requires a set of good quality drawings and original photographs to produce the printed figures.
Line drawings should be 1.5–3 times larger than the printed size; the height of letters and numbers should, after reduction, fall within the range 1.2–2.4 mm. Do not use too narrow pen widths for machine-plotted graphs. Shaded areas should be shown by means of cross-hatching or a matrix of dots, rather than a continuous grey wash.
Photographs should not already be screened (overprinted with the point matrix used by printers). The top side of a photograph should be marked if necessary.
Electronic illustrations. For specific enquiries on the preparation of electronic artwork, consult http://www.elsevier.com/locate/authorartwork/.
Colour figures can be printed in colour when this is essential to the presentation. Authors will be charged for colour reproduction. Further information can be obtained from the Publisher.

After acceptance

Notification. You will be notified by the Editor of the acceptance of your contribution, and invited to send an electronic file of the accepted version to the Publisher, if this is not yet available. After acceptance any correspondence should be addressed to the Publisher at the coordinates below.
Page proofs are sent out to the Author in order to check that no undetected errors have arisen in the typesetting or file conversion process. In the proofs only typesetting errors may be corrected. No changes in, or additions to, the accepted paper will be accepted.
Copyright transfer. In the course of the production process the authors will be asked to transfer the copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

Electronic manuscripts

If possible, an electronic version of the manuscript should be submitted on a diskette together with the hard copies of the text and figures, or should be sent (after acceptance) by e-mail or on a diskette to the Publisher. It is the responsibility of the Author to ensure that the electronic version exactly matches the hard copy. No deviations from the version accepted for publication are permissible without the prior and explicit approval by the Editor. Such changes should be clearly indicated on an accompanying print-out of the file.
LaTeX articles and articles prepared with any of the well known word processors can be handled by the Publisher. For specific enquiries on the preparation of LaTex files, consult http://www.elsevier.com/locate/latex/.

Author benefits

No page charges. Publishing in Nuclear Instruments and Methods in Physics Research – Section B is free.
Free offprints. The corresponding author will receive 25 offprints free of charge. An offprint order form will be supplied by the publisher for ordering any additional paid offprints.
Discount. Contributors to Elsevier journals are entitled to a 30% discount on all Elsevier books.

Author enquiries

For enquiries relating to the submission of articles (including electronic submission where available) please visit Elsevier's Author Gateway at http://authors.elsevier.com. The Author Gateway also provides the facility to track accepted articles and set up e-mail alerts to inform you of when an article's status has changed, as well as detailed artwork guidelines, copyright information, frequently asked questions and more. Contact details for questions arising after acceptance of an article, especially those relating to proofs, are provided after registration of an article for publication.

Correspondence with the Publisher

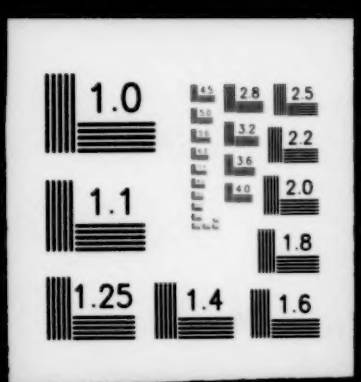
After acceptance of an article any correspondence should be addressed to Elsevier B.V., NIM-B, P.O. Box 2759, 1000 CT Amsterdam, The Netherlands
Tel. +31 20 485 2492, fax +31 20 485 2431
e-mail nimb-ja@elsevier.com

Electronic access to the full text of this journal is available for researchers at subscribing institutes from http://www.elsevier.com/locate/nimb

CONTENTS direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: **http://contentsdirect.elsevier.com**

0168-583X(200312)2101;1-H


1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5